Advanced Nuclear Directory

Developers, Suppliers and National Laboratories

GAIN Gateway for Accelerated Innovation in Nuclear

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INTRODUCTION

The Advanced Nuclear Directory offers a sample of companies engaged in the development of advanced nuclear technologies and should not be considered a comprehensive list of this industry. All companies featured have participated on a voluntary basis and are responsible for the information provided. Inclusion of a company does not indicate endorsement by any of the directory's sponsors.

ACKNOWLEDGMENT

The Advanced Nuclear Directory was created in partnership between Gateway for Accelerated Innovation in Nuclear (GAIN), Third Way, and the United States Nuclear Infrastructure Council (USNIC).

*GAIN reserves the right to edit content for publishing purposes

GATEWAY FOR ACCELERATED INNOVATION IN NUCLEAR

GAIN Gateway for Accelerated Innovation in Nuclear

The mission of the GAIN initiative is to provide the nuclear energy industry with access to the technical, regulatory, and financial support necessary to move advanced nuclear technologies toward commercialization, while ensuring the continued reliable and economic operation of the existing nuclear reactor fleet. GAIN offers a single point of access to the broad range of capabilities across the Department of Energy (DOE) national laboratory complex. DOE has invested billions of dollars to build and maintain its nuclear research expertise and infrastructure. This vast capability is being leveraged via GAIN to support commercialization of new advanced nuclear technologies.

Location: Idaho Falls, ID
Founded: 2015
Directory: Christine King
Federal Engagement: DOE-NE, NRC, NSUF, NEUP, LWRS, NEAMS, ART
Preferred Point of Contact: Christine King | christine.king@inl.gov | 650-283-4235

https://gain.inl.gov

FAST REACTORS INFO SHEET

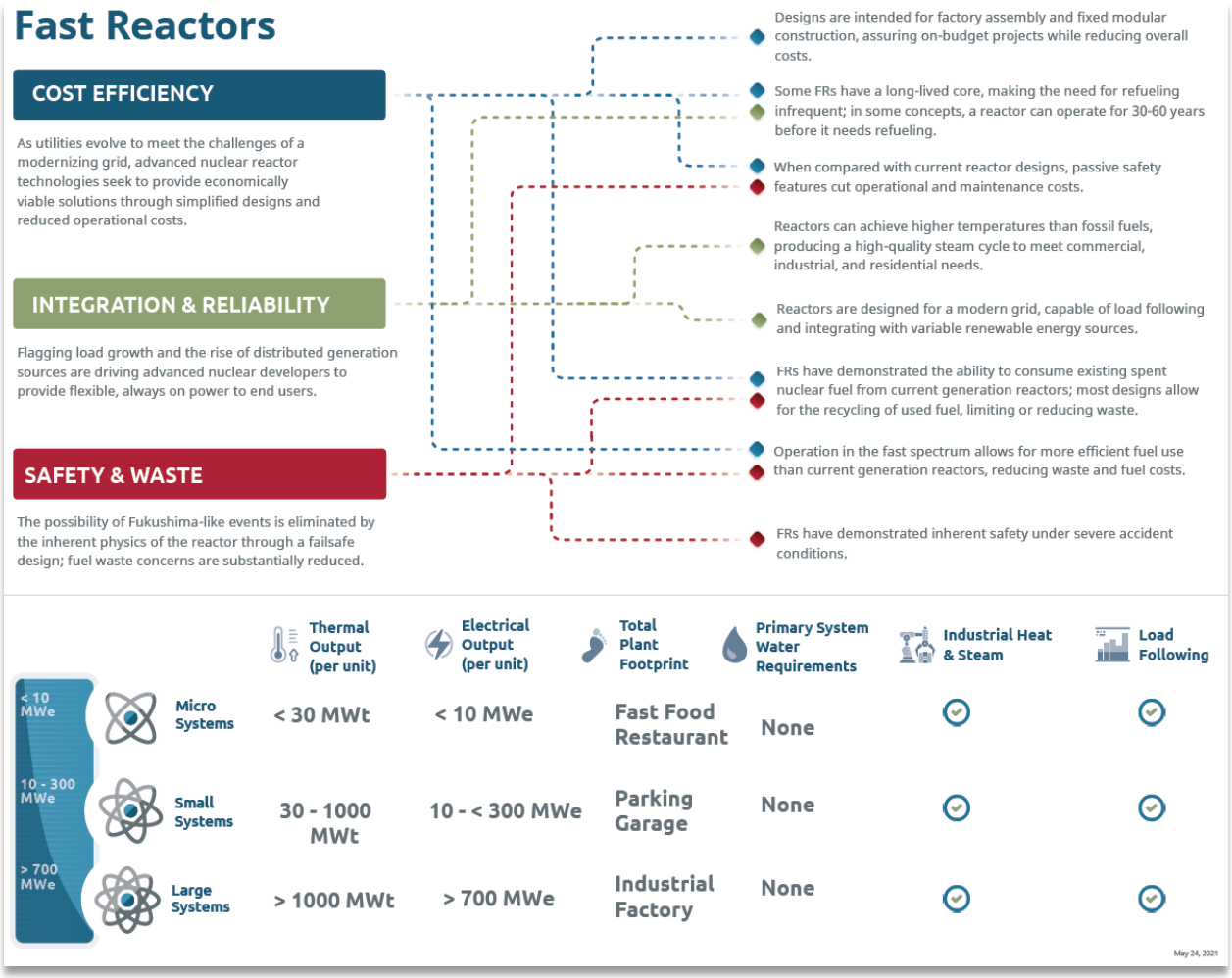
INTRODUCTION

DOE-NE has established the Gateway for Accelerated Innovation in Nuclear (GAIN) to provide the nuclear community with access to the technical regulatory and financial support necessary to move innovative nuclear energy technologies toward commercialization while ensuring the continued safe reliable, and economic operation of the existing nuclear fleet.

Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for US power producers. Several US-based companies are developing Fast Reactors (FRs), a type of advanced nuclear reactor to help meet that energy challenge.

Without a moderator nuclear reactions occur at high energies, producing more efficient fission reactions. Developers of this reactor type offer increased safety, reduced proliferation risk, improved management of nuclear waste, and industrial applications, all at a lower cost than traditional reactors. In some designs the reactor can recycle waste from other reactors or produce additional fuel.

Four types of FRs are being developed by US companies: the Sodium-Cooled Fast Reactor (SFR), Lead-Cooled Fast Reactor (LFR), Gas-Cooled Fast Reactor (GFR), and Molten Salt Fast Reactors (MSFR).



Inherently Safe by Design

By operating in the fast spectrum with a liquid metal coolant, FRs are able to provide both high power density and passively safe operation. FRs rely on "fast neutrons" to cause fission, and can be designed without a moderator (e.g., water) in the reactor core. A liquid metal coolant allows for efficient heat transfer at low pressure, promoting natural circulation and passive decay heat removal. In the event of a rise in temperature, the physics of the reactor provides reactivity feedback that inherently reduces the reactor's power. This inherent safety behavior prevents severe accidents, as demonstrated by Experimental Breeder Reactor-II (Image 1). FRs using gas and salts can achieve similar inherent safety performance by passively removing heat, and incorporating self-stabilizing reactivity feedbacks.

Fuel Cycle Features

The unique properties of FRs enable efficient fuel utilization and waste minimization. FRs can operate with a favorable neutron balance; fission reactions in FRs are capable of creating neutrons than consumed. By converting these excess neutrons into usable fuel materials, Some FRs are designed to produce more fuel. FRs are also flexible to accept a wide range of fuel materials, with many designs capable of recycling existing nuclear waste in a closed fuel cycle. The efficient fuel utilization of FRs can also enable some designs to operate for decades without refueling. FRs offer fuel cycle flexibility, providing a robust fuel supply and improved nuclear waste management.

Experimental Breeder Reactor-II (EBR II) at the National Reactor Testing Stations in Idaho

Load Following and Integration

By deploying FRs in an energy mix, power producers are able to provide reliable electricity to customers while integrating with other generation technologies, such as variable renewable energy resources. Flexible load following capabilities allow a reactor to adjust to demand and intermittent supply. In times when less power is needed, fast reactors have a ramp-down rate of less than 15 minutes. When the demand for energy increases, it can be ramped up to full power within minutes.

HIGH TEMPERATURE REACTORS INFO SHEET

INTRODUCTION

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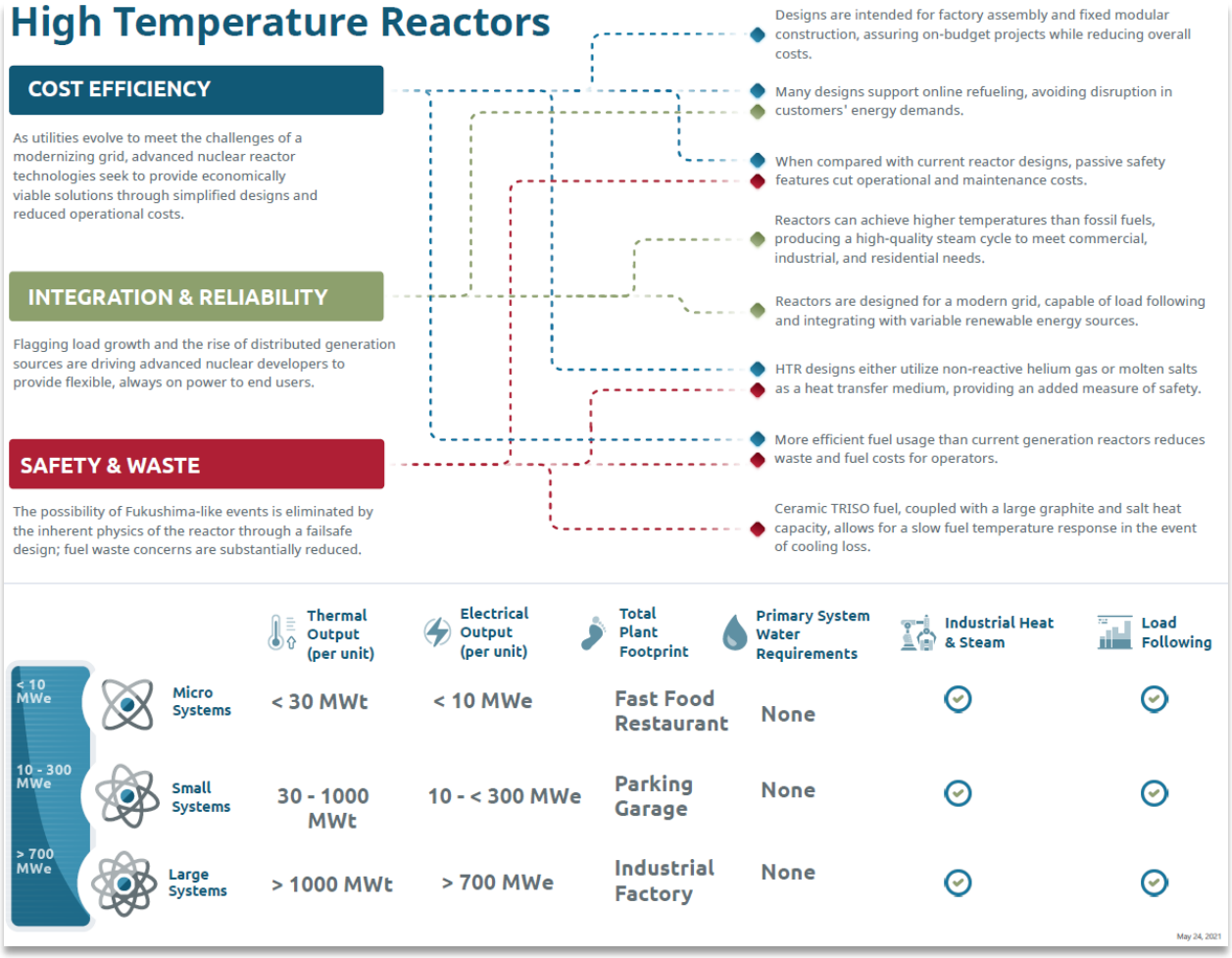
Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for US power producers. Several US-based companies are developing High Temperature Reactors (HTRs), a type of advanced nuclear reactor, to help meet that energy challenge.

HTRs are a type of graphite-moderated thermal reactor employing TRISO fuels (see below), differentiating them from other advanced reactor concepts. HTRs use either inert gas or molten salt as a heat transfer medium. Developers of this reactor type offer increased safety, remote power, and industrial applications.

HTRs typically use low enriched uranium fuel to produce higher reactor outlet temperatures than other reactors. For this reason, developers of HTRs offer it as a viable replacement to industrial fossil fuel processes.



Quality Process Heat for Industrial Applications

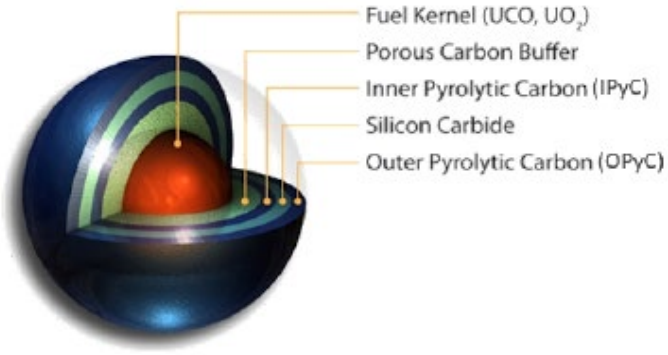
All HTR systems have the ability to reach higher and more precise temperatures than those that use fossil fuels. HTRs' ability to consistently produce clean, quality heat is especially important in industrial chemical processes, where a plant must maintain a set range of temperatures for successful production. HTRs, therefore, can reduce the margin of error for operators, resulting in greater cost efficiencies.

Inherent Safety that Starts at the Fuel Source

HTRs are built around safety, beginning with advances in nuclear fuel technology. All HTRs use “tri-structural isotropic” fuels, commonly referred to as TRISO fuels (Image 1). TRISO fuel comes in different shapes and sizes; no matter the form, this advanced fuel source contains a small amount of low-enriched uranium fuel within three layers of protective graphite and silicon carbide. These TRISO particles are incorporated into a graphite matrix within spheres ("pebbles") the size of a golf ball or a tennis ball, or into blocks ("compacts"). The coatings around the TRISO particles fully contain fission products resulting from the nuclear reaction, eliminating the need for costly, concrete containment structures.

Load Following and Integration

By deploying HTRs in an energy mix, power producers are able to provide reliable electricity to customers while integrating with other generation technologies, such as variable renewable energy resources. Flexible, load following capabilities of HTRs enable integration with intermittent renewable energy sources; moreover, the high-grade heat produced by HTRs make thermal energy storage or integration with industrial processes possible and attractive during low electricity demand intervals.



A tri-structural isotropic or “TRISO” fuel particle

MOLTEN SALT REACTORS INFO SHEET

INTRODUCTION

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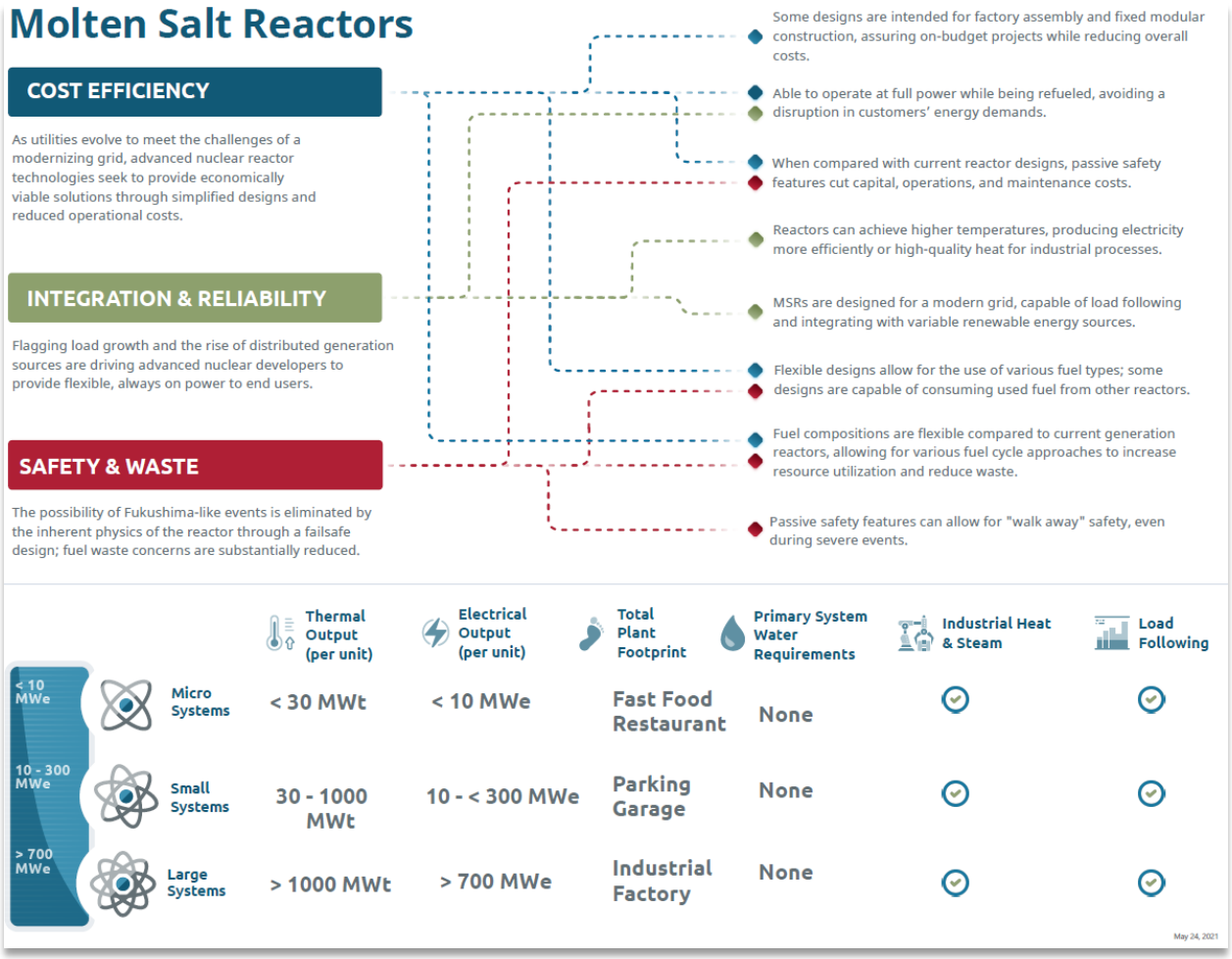
Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for power producers in the US. Several US-based companies are developing Molten Salt Reactors (MSRs), a type of advanced nuclear reactor, to help meet that energy challenge.

MSRs utilize low pressure, high temperature fluoride or chloride salts as liquid fuels and coolants. MSRs are different from most other advanced reactor concepts because of their ability to operate in a low-pressure environment, as well as at higher temperatures and for longer durations than other reactor types. Developers of this reactor offer increased safety, reduced proliferation risk, passive safety system features, and short-lived waste.

MSRs could play a significant role in closing the nuclear fuel cycle, increasing fuel utilization, and reducing long-lived waste products.

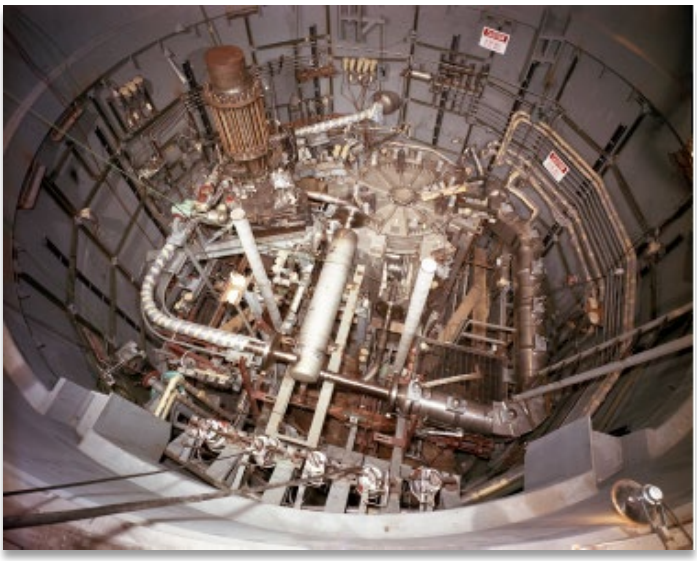


Readily Apparent Safety

Due to the inherent characteristics of low pressure, chemically-inert coolants and liquid fuel systems, MSRs are easily coupled to passive safety systems that eliminate the need for many of the safety systems needed for other reactor types. MSRs can be designed to be “walk away” safe and operate with low pressure components and systems, which improve the economic performance and enhance the safety of the reactor.

High-Quality Energy

MSRs produce high temperature heat for efficient electricity production and for application in high temperature industrial applications, including the production of hydrogen. MSRs are attractive because of their potential to operate at higher, more efficient temperatures for extended operational cycles.



A Top View of the Molten Salt Reactor Experiment (MSRE) at Oak Ridge National Laboratory

Load Following and Integration

By employing MSRs in an energy mix, a power producer is able to provide reliable energy to its customers while integrating with variable resources. Flexible load following capabilities of MSRs enable integration with intermittent renewable energy sources; moreover, the high-grade heat produced by MSRs make thermal energy storage or integration with industrial processes possible and attractive during low electricity demand intervals.

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DEVELOPERS

ADVANCED NUCLEAR | DEVELOPER

AALO ATOMICS

Aalo is building the first nuclear reactor designed specifically for the data center era. The company's 50 MWe Aalo Pod configuration—comprising five modular 10 MWe sodium-cooled reactors—is optimized for distributed deployment, high uptime, and grid independence. Aalo is focused on rapid iteration, factory-built modular construction, and a regulatory-first approach that ensures speed to market. The company's first reactor, Aalo-X, will begin construction at Idaho National Laboratory in 2026 and go critical in 2027 under a DOE authorization pathway. In parallel, Aalo is pursuing NRC licensing for future commercial deployment.

Unlike others dependent on HALEU, Aalo uses LEU+ UO_2 fuel, available through today's supply chain. Aalo's pilot factory is fully operational, and the full-scale reactor prototype is undergoing sodium testing in Texas. The team includes veterans of the MARVEL reactor project—the first to achieve DOE authorization in over 40 years—and leaders from SpaceX, Google, Microsoft, Westinghouse, and the DOE. Aalo is venture-backed and on track to become the fastest developer in the nuclear sector, with plans to mass manufacture and export gigawatt-scale fleets of modular nuclear systems worldwide.

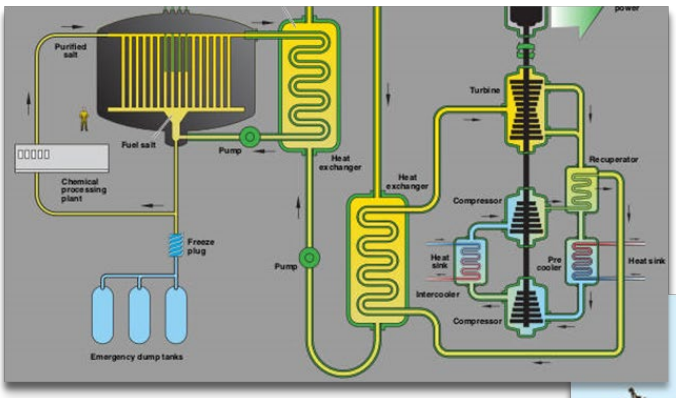
https://www.aalo.com/

Location: Austin, TX
Founded: 2022
Principal/CEO: Matt Loszak
Major Investors: 50Y, Valor Equity Partners, Harpoon Ventures, Crosscut, SNR, Alumni Ventures, Preston Werner, Earth Venture, Garage Capital, Wayfinder, Jeff Dean, Nucleation Capital, and more
Technology Class: XMR (Extra Modular)
Reactor Type: Sodium Cooled Thermal Reactor
Power Output (MWe/MWT): Aalo-1 Reactor 30 MWth / 10 Mwe, Commercial Product is Aalo-Pod (5 Aalo-1 with common turbine generator) 50 MWe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Matt Loszak | Matt@aalo.com

ALPHA TECH RESEARCH CORP.

ADVANCED NUCLEAR | DEVELOPER

Alpha Tech Research Corp is developing thorium fueled Molten Salt Reactor (MSR) technology to enable a new phase in clean, safe power production.



Location: Salt Lake City, UT
Founded: 2016
Principal/CEO: Nick Baguley
Major Investors: Non-disclosed
Technology Class: MSR
Reactor Type: MSTIR
Power Output (MWe/MWT): 30MWt
Federal Engagement: DOE, NRC
Preferred Point of Contact: Staci Wheeler | staci@alphatechresearchcorp.com | 801-477-0715

https://alphatechresearchcorp.com/

ANTARES INDUSTRIES

ADVANCED NUCLEAR | DEVELOPER

Antares is building fission microreactors to enable strategic energy for critical mission capabilities on earth, in space, and underwater.

Location: Torrence, CA
Founded: 2024
Principal/CEO: Jordan Bramble
Major Investors: Non-disclosed
Technology Class: Microreactor
Reactor Type: Heat Pipe Reactor
Power Output (MWe/MWT): 100-500 kWe
Federal Engagement: DOE, GAIN, NRC, DOD
Preferred Point of Contact: Matt Griffin | matt@antaresindustries.com

https://antaresindustries.com/

ARC CLEAN TECHNOLOGY, INC.

ADVANCED NUCLEAR | DEVELOPER

ARC is a clean energy technology company developing the ARC-100, an advanced small modular reactor (aSMR) offering inherently safe, reliable, and economical carbon free power. Leveraging proven technology from the 30-year performance of its prototype, the ARC-100's simple, modular design provides 100 megawatts of electricity and industrial heat that is cost competitive with fossil fuels. Important applications include the decarbonization of heavy industry, the fueling of low-carbon hydrogen projects, and the creation of valuable medical isotopes. The ARC-100 is the recipient of an ARDP (ARC-20) award from the U.S. DOE. It has also been selected by New Brunswick Power for implementation on their Point Lepreau site, with completion targeted for the late 2020s. ARC has offices in Washington, DC. and Saint John, New Brunswick.

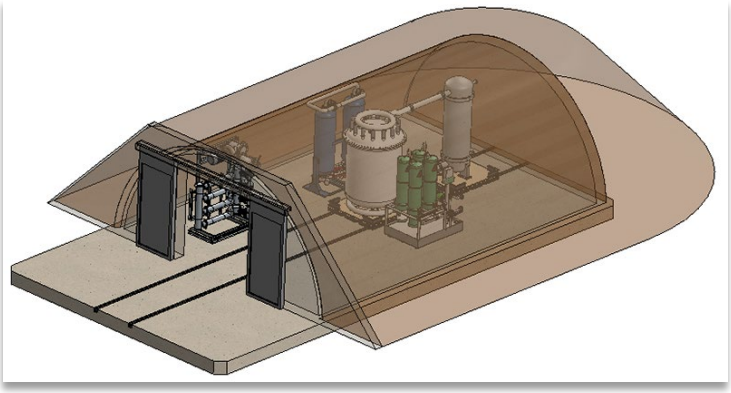
Location: Washington, DC
Founded: 2006
Principal/CEO: Donald Wolf
Major Investors: Non-disclosed
Technology Class: Advanced small modular reactor
Reactor Type: Sodium cooled fast reactor
Power Output (MWe/MWT): 100 MWe / 286 MWt
Federal Engagement: DOE, NRC
Preferred Point of Contact: Irfan Ali | iali@arc-cleantech.com

https://arc-cleantech.com/

BWX TECHNOLOGIES, INC.

BWX Technologies, Inc. (BWXT) provides safe and effective nuclear solutions for national security, clean energy, environmental remediation, nuclear medicine and space exploration. With approximately 6,700 employees, BWXT has 12 major operating sites in the U.S. and Canada. We are the sole manufacturer of naval nuclear reactors for U.S. submarines and aircraft carriers. Our company supplies precision manufactured components, services and fuel for the commercial nuclear power industry across four continents. Our joint ventures provide environmental remediation and nuclear operations management at more than a dozen U.S. Department of Energy and NASA facilities. BWXT's technology is also driving advances in medical radioisotope production in North America and microreactors for various defense and space applications.

Through its entities, BWXT is developing BANR (BWXT Advanced Nuclear Reactor). BANR is a transportable microreactor designed to utilize advanced TRISO particle fuel to achieve Higher uranium loading and improved fuel utilization.



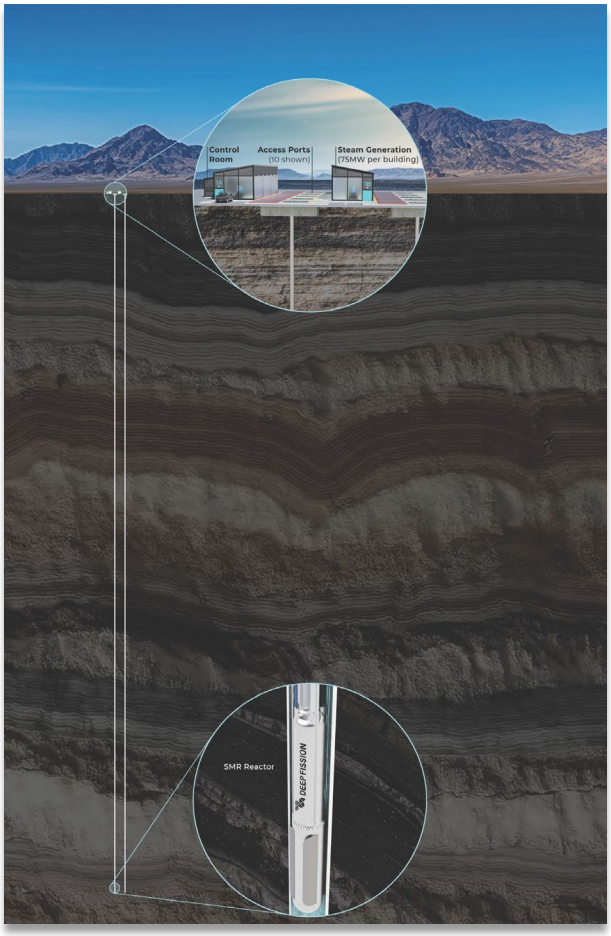
https://www.bwxt.com/

Location: Lynchburg, VA
Founded: 1857
Principal/CEO: Rex D. Geveden
Major Investors: BWX Technologies, Inc. is publicly traded on the New York Stock Exchange
Technology Class: High Temperature Gas Reactor
Reactor Type: High Temperature Gas Microreactor
Power Output (MWe/MWT): 17 MWe / 50 MWt
Federal Engagement: DOE, NRC,
Preferred Point of Contact: Joshua L. Parker | jlparker2@bwxt.com | 434-316-7652

DEEP FISSION

ADVANCED NUCLEAR | DEVELOPER

Deep Fission is a pioneering nuclear energy company burying small modular reactors a mile underground using proprietary deep-borehole technology to deliver reliable, 24/7 electricity with minimal surface footprint. By adapting proven oil and gas innovations—like directional drilling, modular completions, and field-scale logistics—Deep Fission eliminates the need for costly, time-consuming construction. This approach cuts capital costs by up to 80%, compresses deployment timelines, and enables profitability from the very first project, unlocking a faster, cheaper, and more scalable path to carbon-free power.



Location: Berkeley, CA
Founded: 2023
Principal/CEO: Liz Muller
Major Investors: 8VC, Endeavour
Technology Class: Advanced Small Modular Reactor
Reactor Type: Pressurized Water Reactor (PWR)
Power Output (MWe/MWT): 15 MWe / 50 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Jen Stakich | jen.stakich@deepfission.com | 707-400-0778

https://www.deepfission.com

EXODYS ENERGY, INC.

ADVANCED NUCLEAR | DEVELOPER

EXODYS ENERGY believes that nuclear energy innovation will propel humanity past energy poverty and pollution. With over 400,000 tons of nuclear fuel waste, the world has centuries of clean energy security. To unlock this potential, the company is developing two technologies:

- UP-CYCLE: Nuclear waste-to-fuel conversion process
- KLOROS: Advanced Molten Salt Modular Reactor

The concepts are based on the product of a diverse team of U.S. Navy advanced reactor designers and leaders in both civil and military (naval and space) nuclear power programs. UPCYCLE and KLOROS are being engineered to quickly scale up nuclear energy by improving safety and security margins, with the lowest environmental footprint.

https://www.exodysenergy.com/

Location: New York, NY
Founded: 2022
Principal/CEO: Carl Perez
Major Investors: Non-Disclosed
Technology Class: Advanced Modular Reactor
Reactor Type: Molten Salt Reactor: Fast-spectrum, Chloride Salt
Power Output (MWe/MWT): 500-3000 MWt / 200-1200 MWe
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Carl Perez | cperez@exodysenergy.com | 646-706-3698

FIRST AMERICAN NUCLEAR CO.

ADVANCED NUCLEAR | DEVELOPER

1st American Nuclear Co. is the development company formed to manage the commercialization of the lead-bismuth advanced reactor designed by Columbia Basin Consulting Group, a leader in advanced nuclear reactor design and operation with over 1,000 person-years of team experience and some of the nation's leading experts in the industry. Building upon the knowledge of hands-on involvement with every major advanced reactor design in the U.S. from EBR-II to the Versatile Test Reactor and Fast Flux Test Facility, First American has developed the only advanced reactor design which is cost-competitive with natural gas and renewables: The Eagle One 240MWe Small Modular Reactor.

Based off proven and operational propulsion reactor technology utilized in military applications, Eagle One delivers inherently safe and highly efficient power through a simplified design utilizing lead-bismuth coolant. The Eagle One design minimizes the costs associated with nuclear power plants by engineered features which eliminate the vast majority of process and event mitigation systems required by other designs.

Eagle One integrates the reactor power block with off-the-shelf components to create a flexible solution which can be brought to market quicker than other designs. Entirely factory fabricated for quality enhancement and labor reduction, Eagle One is highly responsive to industry needs and uniquely deployable for a variety of use cases.

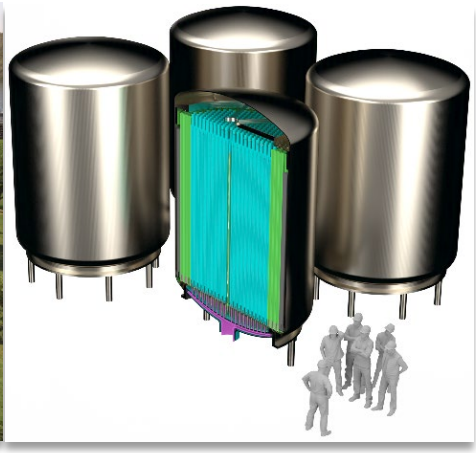
Taking a customer-centric approach, First American is developing low cost nuclear in a safer, smaller, and high-reliability package.

https://fanuclear.com/

Location: Richland, WA
Founded: 1998
Principal/CEO: William J. Stokes
Major Investors: Confidential
Technology Class: Liquid metal cooled
Reactor Type: Lead-Bismuth Gen IV Fast Reactor
Power Output (MWe/MWT): 260 MWe/600 MWt (Load-Following through a proprietary energy storage system)
Federal Engagement: DOE, GAIN, PNNL, Other
Preferred Point of Contact: Bill Stokes | wjstokes@fanuclear.com

FLIBE ENERGY, INC.

Founded in 2011 as the world's first molten-salt reactor company, Flibe Energy, Inc. (FEI) is deploying the Lithium Fluoride Thorium Reactor (LFTR), building on Oak Ridge's proven 1950s–1970s demonstrations. Liquid fuel with on-site chemical processing enables medical isotope production and near-complete fuel consumption—virtually eliminating long-lived waste. Legacy transuranic (TRU) inventories from today's used nuclear fuel (UNF) and government surplus materials serve as ideal starter fuels for Flibe's thermal isobreeder. Today's waste becomes a bridge to a domestic thorium/U-233 fuel cycle free of enrichment and solid-fuel fabrication costs. Furthermore, a supercritical CO_2 power system shrinks the footprint and enables dry-air cooling for flexible siting.



Location: Huntsville, AL
Founded: 2011
Principal/CEO: Kirk Sorensen
Major Investors: Private
Technology Class: Molten salt reactor
Reactor Type: Liquid fuel/coolant, fluoride salts, thermal spectrum, graphite moderator, thorium/U-233 fuel cycle
Power Output (MWe/MWT): Micro: 25 MWe / 60 MWth; SMR: 250 MWe / 600 MWth
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Kurt Harris | kurt.harris@flibe.com

https://flibe.com/

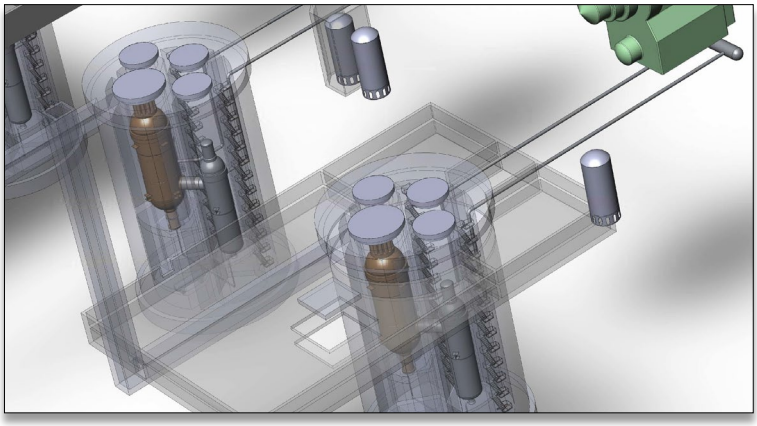
FRAMATOME, INC.

framatome

ADVANCED NUCLEAR | DEVELOPER

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services.

Framatome is developing the Steam Cycle HTGR Generation IV advanced reactor concept. Its scalable design provides options for a variety of customer needs for high-temperature steam and electricity. Its unparalleled safety profile allows co-location with customer facilities. True walk-away safety and restart capability following a design-basis accident make the SC-HTGR a low investment risk for plant owners and operators.



Location: Lynchburg, VA
Founded: 1989
Principal/CEO: Gary Mignogna
Major Investors: Non-disclosed
Technology Class: High temperature gas cooled
Reactor Type: Steam cycle high temperature gas cooled reactor
Power Output (MWe/MWT): 22-272 MWe / 50-625 MWt
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Darryl Gordon | Darryl.gordon@framatome.com | 434-832-5199

https://www.framatome.com/en/

GE VERNOVA HITACHI NUCLEAR ENERGY

BWRX-300 Small Modular Reactor (SMR) - GE Vernova Hitachi Nuclear Energy (GVH) is a world leader in new plant technology, fuel and services. GVH's BWRX-300 is a 300 MWe water- cooled, natural circulation small modular reactor with passive safety systems that leverages the design and licensing basis of the company's U.S. NRC-certified ESBWR. Through dramatic and innovative design simplification, GVH projects the BWRX-300 will require significantly less capital cost per MW when compared to other SMR designs. By leveraging the ESBWR design certification, utilizing the licensed and proven GNF2 fuel design, and incorporating proven components and supply chain expertise the BWRX-300 can, GVH believes, become the lowest-risk, most cost-competitive and quickest to market SMR.

In Canada, the first BWRX-300 is under construction at Ontario Power Generation's (OPG) Darlington site near Toronto. This unit is the first commercial SMR to begin construction in the G7, with commercial operation planned for 2030. SaskPower entered an agreement with GVH to collaborate on project planning and to share expertise for the BWRX-300. In the U.S., Tennessee Valley Authority (TVA) submitted a Construction Permit Application to the U.S. Nuclear Regulatory Commission (NRC) for a BWRX-300 at TVA's Clinch River site near Oak Ridge, TN. In Poland, the government has reached a decision in principle and approved six locations for the construction of 24 BWRX-300 units. GVH has also gained interest in other regions having been selected or shortlisted for potential deployment in Estonia and the Nordics.

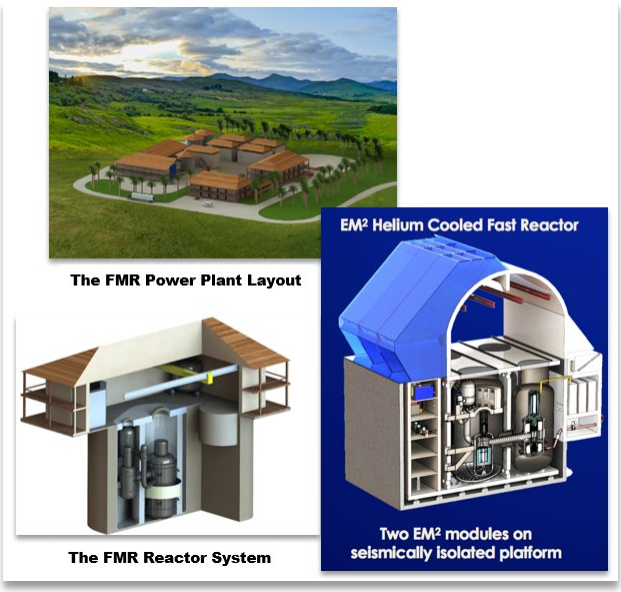
https://www.gevernova.com/nuclear

Location: Wilmington, NC
Founded: 1955
Principal/CEO: Jason cooper (CEO, SMR and Advanced Nuclear)
Major Investors: OPG, TVA, Synthos Green Energy, Duke Energy
Technology Class: Gen III + SMR
Reactor Type: Boiling Water Reactor
Power Output (MWe/MWT): (Mwe/MWt): 300/870
Federal Engagement: U.S. NRC, U.S. Department of Energy, Canadian Nuclear Safety Commission, UK Office for Nuclear Regulation, Poland National Atomic Energy Agency
Preferred Point of Contact: Bob Dunn | robert.dunn@gevernova.us

GENERAL ATOMICS ELECTROMAGNETIC SYSTEMS

General Atomics Electromagnetic Systems (GA-EMS) Group has been at the forefront of innovation in nuclear energy since the 1950s. We continue to push the boundaries of what is possible in advanced nuclear reactors while helping to sustain our current reactor fleet and spinning off advanced material technologies that have the potential to enhance public safety and well-being. GA's TRIGA® research reactors are some of the most successful reactor designs in history.

GA-EMS is building on its experience with TRIGA® in developing the next generation of advanced fission reactors, such as the 50 MWe Fast Modular Reactor (FMR) for distributed power generation in the mid-2030s to be followed by the 265 MWe 4-unit (1 GWe) Energy Multiplier Module (EM2) for grid-scale power generation. These two load-following advanced high temperature helium-cooled fast reactors have a net efficiency as high as 53%. Both reactors employ cutting-edge advances in materials science to address the four core challenges facing nuclear energy – safety, waste, cost, and non- proliferation. EM2 and FMR can be powered by fresh or spent nuclear fuel and operated without refueling for up to 30 for EM2 and 9 years for the FMR.



The FMR Power Plant Layout

The FMR Reactor System

GA is developing silicon carbide composites, SiGA®, for Accident Tolerant Fuel cladding and reactor components, such as those in the EM2 and FMR. Innovative technology solutions are underway for specialty nuclear fuels, radioactive waste remediation, advanced materials for extreme environment applications, space reactors for both propulsion and power.

https://www.ga.com/ems

Location: San Diego, CA
Founded: 1955
Principal/CEO: Neal Blue
Major Investors: Non-disclosed
Technology Class: Advanced nuclear reactors, fuels and materials
Reactor Type: High temperature gas cooled fast reactors
Power Output (MWe/MWT): 50MWe / 112 MWt (FMR); 4 x 265 MWE / 4 x 500 MWt (EM2)
Federal Engagement: DOE, GAIN, NRC, DARPA, DoD, NASA, Other
Preferred Point of Contact: Ron Faibish | ron.faibish@ga.com | 202-713-8333

HADRON ENERGY, INC.

ADVANCED NUCLEAR | DEVELOPER

Hadron Energy is developing next-generation light-water micro modular reactors (MMRs) to meet the rapidly growing global demand for reliable, carbon-free power. The company's flagship Halo Microreactor is a 10 MWe / 35 MWt integral pressurized water reactor (iPWR) designed for factory production, transportability, and scalable deployment across distributed energy applications.

Hadron is advancing a differentiated approach within the microreactor sector by leveraging proven light-water reactor technology reconfigured into a compact, modular deployment. This enables a lower regulatory and technical risk profile compared to non-light-water designs while maintaining the advantages of rapid deployment and fleet-scale manufacturing.

The Halo system is specifically optimized for co-location with high-growth energy demand centers, including AI data centers and critical infrastructure. As electricity demand accelerates due to artificial intelligence and electrification, Hadron is positioning its plant as a scalable solution to the emerging structural shortage of firm, dispatchable power.

The company is actively engaged with the U.S. Nuclear Regulatory Commission (NRC) and has submitted key pre-application licensing materials, advancing toward commercial deployment under evolving microreactor regulatory frameworks. Hadron is also a participant in the DOE's Gateway for Accelerated Innovation in Nuclear (GAIN) program and is aligned with broader federal initiatives supporting advanced nuclear commercialization.

In 2025, Hadron announced a definitive business combination with GigCapital7, positioning the company to become a publicly listed advanced nuclear developer. This milestone is expected to accelerate licensing, engineering, and manufacturing scale-up, supporting first-of-a-kind (FOAK) deployment and transition to serial production. Hadron has established transition to serial production. Hadron has established early partnerships with nuclear-qualified suppliers to support instrumentation & control systems, component manufacturing, and plant integration.

Hadron Energy is positioning itself as a leading developer of light-water microreactors for the emerging distributed nuclear energy market.

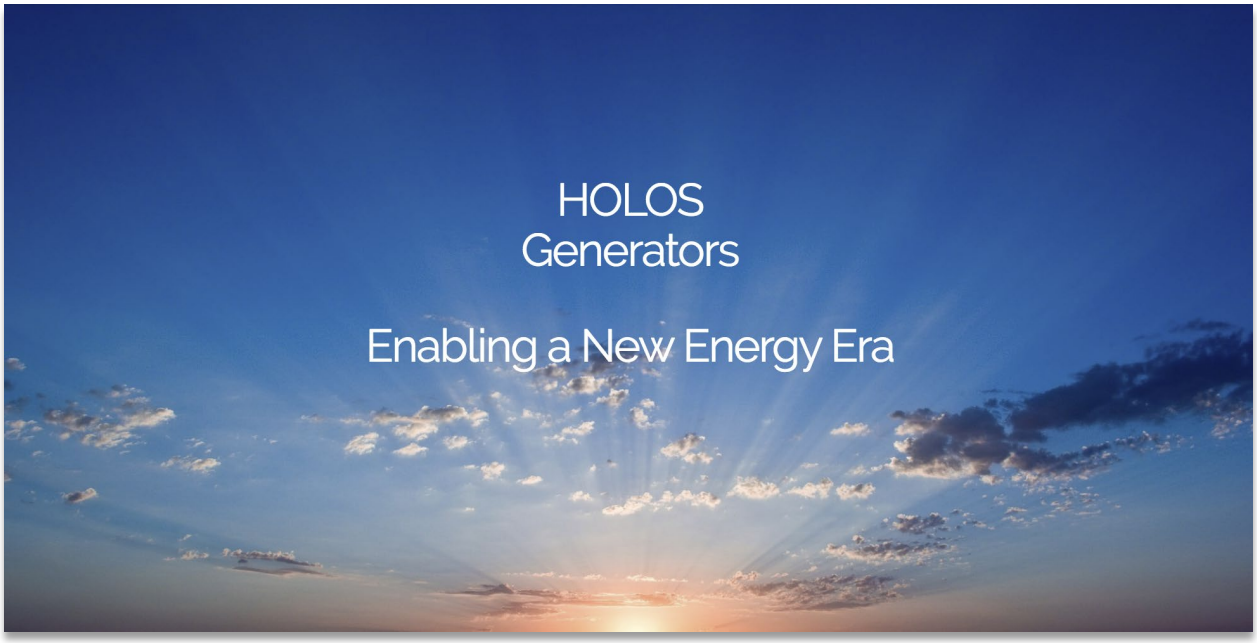
https://www.hadronenergy.com/

Location: San Francisco, CA
Founded: 2024
Principal/CEO: Sam Gibson
Major Investors: GigCapital7
Technology Class: Micro Modular Reactor
Reactor Type: Pressurized Water Reactor
Power Output (MWe/MWT): 10 MWe, 35Wt
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Samuel Gibson | sgibson@hadronenergy.com

HOLOSGEN LLCS

HolosGen™

HolosGen develops mobile scalable integral nuclear generators with simplified and innovative designs that are optimized to produce economical, distributable, pollutant-free, and most importantly, safe electricity.



Location: Manassas Park, VA
Founded: 2017
Principal/CEO: Claudio Filippone
Major Investors: Non-disclosed
Technology Class: Gas cooled
Reactor Type: High temperature gas reactor
Power Output (MWe/MWt): 3-81 MWe / 5-135 MWt
Federal Engagement: N/A
Preferred Point of Contact: Claudio Filippone | http://www.hologsen.com/contact-us/

http://www.hologsen.com/

ADVANCED NUCLEAR | DEVELOPER

HOLTEC INTERNATIONAL

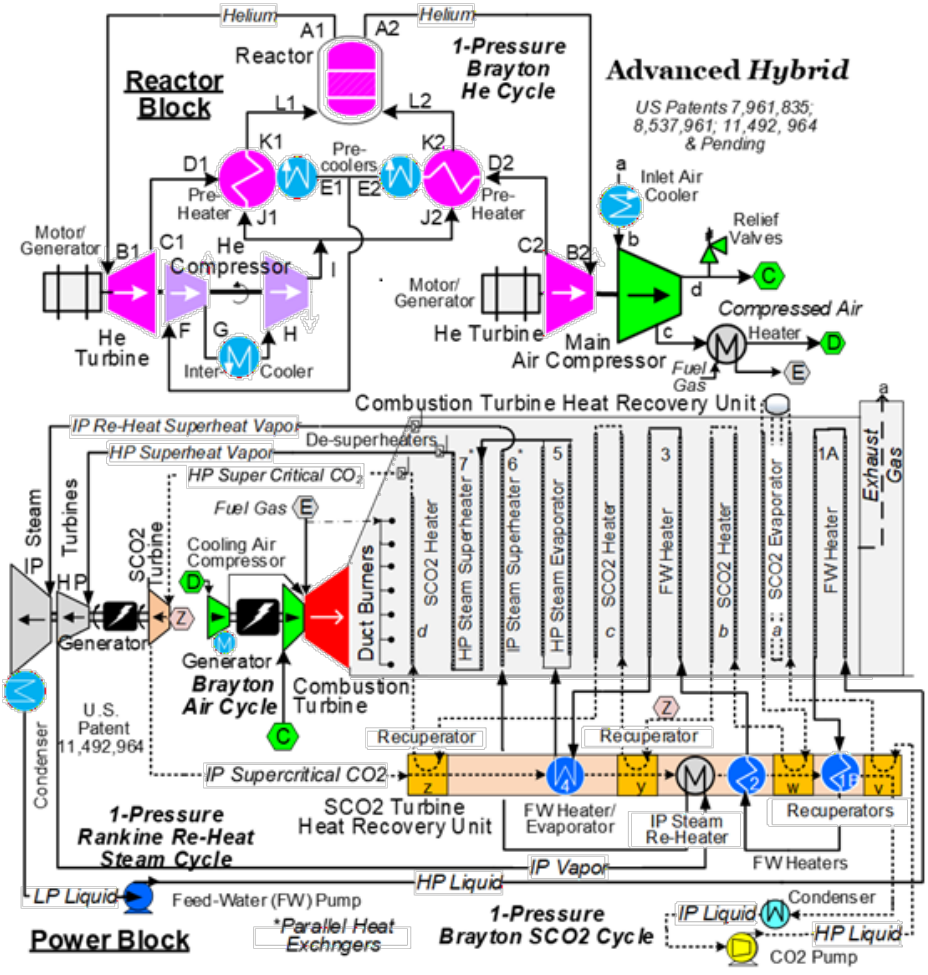
Holtec's SMR-160 is a robust small modular reactor that delivers 160 MW net electric in a small footprint. SMR-160 is based on pressurized water reactor technology and uses low enriched uranium fuel to provide reliable, affordable and carbon-free energy. The SMR-160 is "walk-away safe," requiring no operator actions during natural disasters, man-made threats, or any of the conditions required to be considered by U.S. regulations. It is the ideal solution for sustaining economic growth worldwide. Since SMR-160 can integrate readily to both established electrical grids or as an independent distributed power source, it is well adapted for both undeveloped and developed countries. SMR160 is truly modular. The majority of the plant's equipment and structures are factory-fabricated and can be delivered to each site in segments. An SMR-160-based site can easily be expanded with additional units to meet current and future demand. Please visit www.smrllc.com for more information.

Location: Camden, NJ
Founded: 1986
Principal/CEO: Dr. Krishna P. Singh
Major Investors: Non-disclosed
Technology Class: Advanced Small Modular Reactor
Reactor Type: Light Water PWR
Power Output (MWe/MWT): 160 MWe
Federal Engagement: DOE, NRC
https://holtecinternational.com/products-and-services/smr/
Preferred Point of Contact: Myron Kaczmarsky | m.kaczmarsky@holtec.com | 856-797-0900 x 3657

HYBRID POWER TECHNOLOGIES LLC

ADVANCED NUCLEAR | DEVELOPER

Developer of patented Hybrid Nuclear technology that integrates the use of nuclear and hydrocarbon fuels. A small (~600 megawatts thermal) helium cooled gas reactor drives the decoupled air compressor of a combustion turbine. Plant output over 1200 megawatts (electric)



Location: Overland Park, KS
Founded: 2003
Principal/CEO: Michael F. Keller
Major Investors: Privately funded
Technology Class: Gas Cooled
Reactor Type: Graphite moderated, helium cooled
Power Output (MWe/MWt): +1100 MWe/+630 MWt (Reactor)
Federal Engagement: N/A
Preferred Point of Contact: Michael F. Keller | m.keller@hybridpwr.com | 913-375-6983 (cell)

https://www.hybridpwr.com/

KAIROS POWER LLC

Kairos Power

Kairos Power is a mission-driven company singularly focused on its effort to commercialize the fluoride salt-cooled high-temperature reactor (FHR) in time to play a significant role in the fight against climate change. Kairos Power is disrupting the industry with rapid iterative development and vertical integration strategies to deliver a clean energy solution with robust safety at an affordable cost.

Location: Alameda, CA
Founded: 2016
Principal/CEO: Mike Laufer
Major Investors: Non-disclosed
Technology Class: Solid-fueled/Molten salt cooled
Reactor Type: Graphite-moderated, fluoride salt-cooled, high temperature reactor
Power Output (MWe/MWT): KP-X Demonstration Plant (50 MWe), KP-FHR Commercial Fleet (each unit will be 75 MWe)
Federal Engagement: GAIN
Preferred Point of Contact: info@kairospower.com | 510-808-5265

https://kairospower.com

MICRONUCLEAR LLC

MicroNuclear LLC is focused on developing energy solutions. Current efforts include development of the Molten Salt Nuclear Battery (MsNB) as well as instrumentation and components for severe environment applications.

Location: Brentwood, TN
Founded: 2017
Principal/CEO: Paul Marotta
Major Investors: Proprietary private investors
Technology Class: Advanced Microreactor
Reactor Type: Molten Salt Dissolved Fuel
Power Output (MWe/MWT): 5-10 MWe / 10-20 MWt
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Paul Marotta | paul@micronucleartech.com | 615-417-3649

https://micronucleartech.com/

MOBILENUCLEAR ENERGY LLC

At MobileNuclear, we are dedicated to redefining the energy landscape with innovative, secure, and versatile mobile nuclear power solutions. Reliable, resilient energy...anywhere, anytime.

Location: Richmond, VA
Founded: 2024
Principal/CEO: Chris Pehrson
Major Investors: Non-Disclosed
Technology Class: High Temp Gas Reactor
Reactor Type: Mobile Microreactor
Power Output (MWe/MWT): 1MWt / 350 KWe
Federal Engagement: DOE, GAIN, NRC, DOD, DHS, IC
Preferred Point of Contact: Chris Pehrson | chris.pehrson@avanttech.inc | 202-617-1933

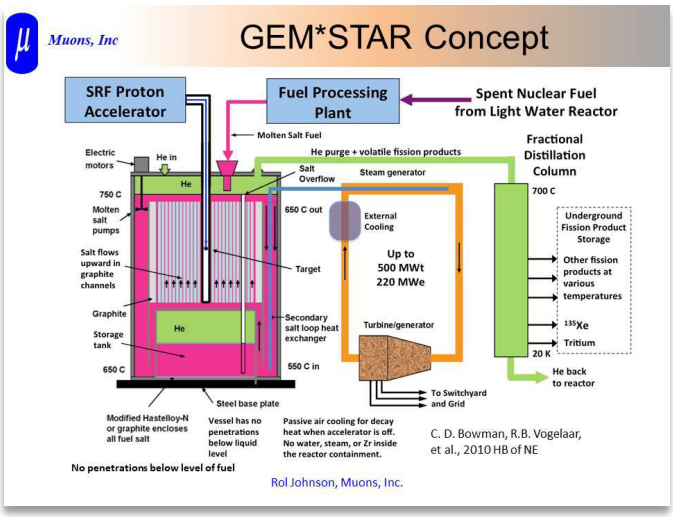
https://mobilenuclear.energy/

MUONS, INC.

Muons, Inc.
Innovation in Research

ADVANCED NUCLEAR | DEVELOPER

Partnering with national labs and universities with their extraordinary people and facilities, Muons has leveraged its creative talents to provide solutions to many problems of global and national interest. Muons has received over $30M in competitive DOE contracts and Small Business Innovation and Technology Transfer Research grants, which have generated intellectual property as well as appreciation for our work in the accelerator and reactor communities. Examples of our inventions are included in discovery science (Muon Collider, the next atom smasher); medicine (Energy-Recovery Linacs for commercial production of new radioisotopes for therapy and diagnostics); national security (photon and neutron sources for cargo scanning); energy and environment (Mu*STAR subcritical system for carbon-free energy production); and industry (magnetron power sources for RF cavities). As a supporter of science and technology, Muons supports students and post-docs and provides computer programs for accelerator and reactor communities.



Location: Batavia, IL
Founded: 2002
Principal/CEO: Rolland Johnson, President
Major Investors: Rolland Johnson
Technology Class: Advanced reactor developer
Reactor Type: SRF linac driven subcritical molten salt thermal spectrum SMR
Power Output (MWe/MWt): 220 MWe/500 MWt
Federal Engagement: DOE, ARPA-E, GAIN, DOE SBIR-STTR Programs
Preferred Point of Contact: Rolland Johnson | rol@muonsinc.com | 757-870-6943

https://muonsinc.com/

NANO NUCLEAR ENERGY INC.

Nano Nuclear Energy Inc. is a U.S.-based nuclear technology company dedicated to developing advanced microreactors and building out a secure, vertically integrated nuclear fuel supply chain. The company's flagship reactor project is KRONOS, a compact microreactor designed for deployment in remote locations and extreme environments. Nano is advancing KRONOS prototype and demonstration systems at the University of Illinois Urbana-Champaign (UIUC) and Chalk River Laboratories in Canada, working alongside world-class research teams and regulators to validate and license its technology.

Nano is invested in transforming the nuclear fuel supply chain. The company is supporting the development of next-generation uranium enrichment technologies and is actively exploring uranium mining opportunities to secure upstream material sources. Nano is also building capabilities in transportation infrastructure, including systems for the safe and efficient delivery of fuel, to reduce reliance on foreign supply chains and strengthen U.S. energy security.

In addition, Nano is pursuing partnerships and joint ventures to explore involvement in conversion facilities, further enabling domestic production of nuclear fuel forms. These efforts position the company at the forefront of efforts to create a resilient, end-to-end supply chain that supports advanced reactors and the clean energy transition.

https://nanonuclearenergy.com/

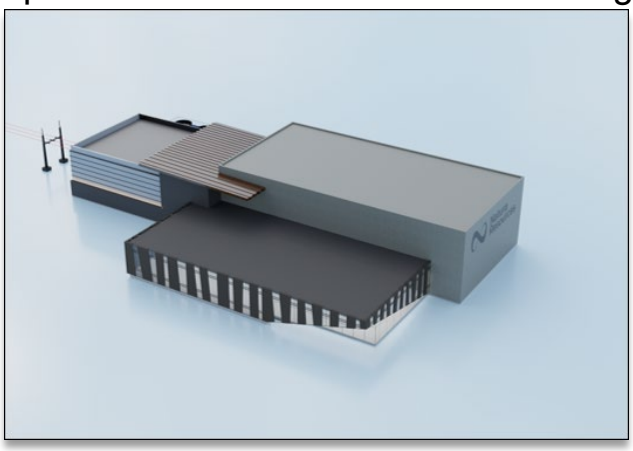
Location: New York, NY
Founded: 2018
Principal/CEO: James Walker
Major Investors: UPS
Technology Class: Solid Core
Reactor Type: Microreactor
Power Output (MWe/MWT): 1MWe / 2.5 MWt
Federal Engagement: DOE, ARPA-E, GAIN
Preferred Point of Contact: James Walker, CEO | info@nanonuclearenergy.com

NATURA RESOURCES

Natura Resources

ADVANCED NUCLEAR | DEVELOPER

Natura Resources is a leading developer of advanced reactors. Our small modular reactor systems are liquid-fueled and molten salt-cooled, which increases overall efficiency and safety while decreasing cost and reducing waste. Our demonstration reactor, the Natura MSR-1, is being deployed at Abilene Christian University (ACU) and is the first liquid-fueled reactor design to receive a construction permit from the U.S. Nuclear Regulatory Commission (NRC). In less than five years, Natura has established itself as a leading force in the advanced nuclear industry, driven by a commitment to performance. Natura's leadership team has a proven track record of revolutionizing the energy industry with innovative technology and tangible results. Deploying demonstration reactor at Abilene Christian University (MSR-1) and developing small modular reactor systems (SMR-100) for commercial deployment.



Location: Abilene, TX
Founded: 2020
Principal/CEO: Douglas Robison
Major Investors: Privately funded
Technology Class: Gen-IV Advanced Reactor Technology, Liquid-Fueled Molten Salt Reactors
Reactor Type: Liquid-Fueled Molten Salt Reactor (LF-MSR)
Power Output (MWe/MWt): MSR-1—1 MWth (n/a Mwe), MSR-100—250 MWth (100 Mwe)
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jordan Robison | jordan@naturaresouces.com | 972-741-2649

https://www.naturaresources.com/

NEUTRONIX

Neutronix
NUCLEAR ENERGY ON DEMAND

Neutronix is a nuclear startup developing next-generation microreactors for near-term, scalable clean energy deployment. Our philosophy emphasizes rapid deployability by leveraging proven technologies, established supply chains, and streamlined licensing pathways. We've developed two distinct microreactor designs—each tailored to a dedicated fleet—engineered for cost-efficiency and market adaptability:

ORCA – Off-grid Reactor for Continuous and Autonomous Application

SLOTH – Strategic Logistical Operation for Onsite Task Handling

As we move toward prototyping and testing our first reactor, we're seeking to align with strategic partners and investors who share our vision for a new era of reliable and sustainable nuclear energy.

https://neutronixenergy.com

Location: New York, NY
Founded: 2018
Principal/CEO: Fakhrul Islam
Major Investors: Actively seeking investment
Technology Class: HTGR
Reactor Type: Microreactor
Power Output (MWe/MWT): 5 MWt / 2MWe, 40 MWt / 15 Mwe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Fakhrul Islam | contact@neutronixenergy.com | 803-477-1134

NIOWAVE, INC.

NIOWAVE
Accelerating Your Particles

ADVANCED NUCLEAR | DEVELOPER

Niowave is utilizing transformative science and technology for advancing nuclear power to meet the nation's energy and security needs. Niowave's Radioisotope Program established both the facilities and the NRC license to operate a subcritical assembly and perform nuclear fuel reprocessing. The team is developing a hybrid fast/thermal spectrum subcritical testbed, coupled to a superconducting electron linac, to provide peak fast-spectrum neutron fluxes greater than 1E15 n/cm2s in heavy liquid-metal environment. The facility will be used to test novel fuels, materials, instruments and components, reactor safety designs, provide data for reactor code development, and support the regulatory process for licensing novel technology.

Location: Lansing, MI
Founded: 2005
Principal/CEO: Terry L. Grimm, President
Major Investors: Privately funded
Technology Class: Liquid metal cooled (lead-bismuth eutectic)
Reactor Type: Hybrid fast/thermal spectrum subcritical testbed
Power Output (MWe/MWt): 0.1-10 MWt
Federal Engagement: DOE, NRC, DoD,
Preferred Point of Contact: Robert Wahlen | wahlen@niowaveinc.com | 517-999-3475

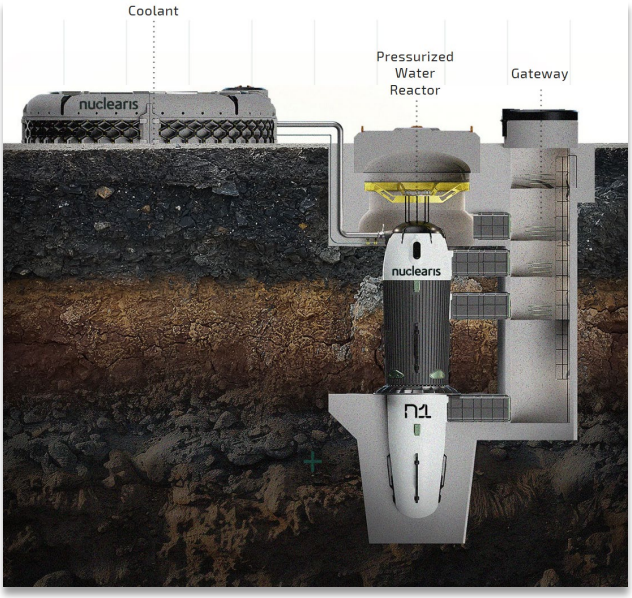
https://www.niowaveinc.com/

NUCLEARIS ENERGY INC.

ADVANCED NUCLEAR | DEVELOPER

Nuclearis Energy's mission is to accelerate energy transition, enhance energy security and access by developing a micro modular reactor using conventional nuclear technology.

By integrating state-of-the-art design, rigorous quality control, and industry-leading expertise, Nuclearis is shaping the future of clean, reliable nuclear energy. The Nuclearis N1 Micro Modular Reactor is an advanced integrated Pressurized Water Reactor (PWR) designed to operate without refueling over its entire lifecycle, housed in a transportable containment unit and installed underground, the N1 leverages natural convection for cooling and heat dissipation. The reactor uses fuel enrichment of less than 4.95% and produces 42 MWt or 17 MWe at an efficiency of 40%, requiring no refueling during its operational lifetime.



At its core, the N1 is designed through a smart integration of proven technologies, ensuring reliability and safety. Its modular design enables efficient manufacturing and deployment, offering cost-effective, autonomous operation for up to 30 years.

Post-operation, the reactor transitions into a dry storage facility for spent fuel by replacing water with inert gases, ensuring safety for over 100 years.

Location: Wilmington, DE
Founded: 2018
Principal/CEO: Santiago Pedro Badran
Major Investors: Non-disclosed
Technology Class: Advanced Micro Modular Reactor (MMR)
Reactor Type: Light Water Pressurized Water Reactor (PWR)
Power Output (MWe/MWT): 17 Mwe / 42 MWt
Federal Engagement: GAIN, NRC
Preferred Point of Contact: Moses Ntereke | moses@nuclearisenergy.com

https://nuclearisenergy.com/

NUCUBE ENERGY

NuCube Energy

NuCube is a nuclear technology company that aims to provide scalable clean energy solutions to meet energy security needs . Our vision is a world powered by small, safe, simple, and economically viable reactors that provide electricity and process heat. Our mission is to develop simple and passively safe nuclear technology that enables this vision.

Achieving this vision requires a new approach to nuclear energy. Rather than starting with an existing concept and modifying the design, we have developed a series of innovative systems and designed a reactor from the ground up to address both electricity and process heat markets.

Location: Idaho Falls, ID
Founded: 2023
Principal/CEO: Dr. Cristian Rabiti
Major Investors: IdeaLab Studios
Technology Class: Microreactor
Reactor Type: TRISO Fueled, Graphite Moderated
Power Output (MWe/MWt): 4MWt, 1.2 MWe
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Lorin Young | nucube@nucube.energy

https://www.nucube.energy/

ADVANCED NUCLEAR | DEVELOPER

NUGEN, LLC

The NuGen Engine™ is an innovative direct-cycle gas-cooled microreactor for land, sea and space use. Its “first principles” design includes a patented spiral fuel core integrated with a unique simplified energy conversion mechanism. It will have a 15-year fuel life, be contained in a single transportable module and be capable of semi-autonomous operations.

The simpler, compacter system has higher efficiency and is more manufacturable and transportable, with less maintenance. It will provide flexible off-grid power—electricity, high-quality process heat, and cogeneration onsite at the point-of-use. It will also support mini- and macro-grids, shipping applications, and space power and propulsion.

NuGen’s patents (8 US, 3 UK and 1 AUS) are listed at https://www.nucdev.com/about-us.html. Additional patents are pending.

Location: Charlotte, NC
Founded: 2006
Principal/CEO: Steve Rhyne
Major Investors: Founder
Technology Class: Advanced Integral HTGR
Reactor Type: Transportable/Mobile Microreactor
Power Output (MWe/MWT): 2-3 MWe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Steve Rhyne | steve@nucdev.com | 704-307-7280

https://www.nucdev.com/

NUSCALE POWER

NuScale Power has developed a new modular light water reactor nuclear power plant to supply energy for electrical generation, district heating, desalination, and other process heat applications. This groundbreaking small modular reactor (SMR) design features a fully factory-fabricated NuScale Power Module™ capable of generating 77 MW of electricity using a safer, smaller, and scalable version of pressurized water reactor technology. NuScale's scalable design—power plants that can house up to four, six, or 12 individual power modules—offers the benefits of carbon-free energy and reduces the financial commitments associated with gigawatt-sized nuclear facilities. The majority investor in NuScale is Fluor Corporation, a global engineering, procurement, and construction company with a 60-year history in commercial nuclear power.

NuScale is headquartered in Portland, OR and has offices in Corvallis, OR; Rockville, MD; Charlotte, NC; Richland, WA; and London, UK. Follow us on Twitter: @NuScale_Power, Facebook: NuScale Power, LLC, LinkedIn: NuScale-Power, and Instagram: nuscale_power. Visit NuScale Power's website.

https://www.nuscalepower.com/

Location: Portland, OR
Founded: 2007
Principal/CEO: John Hopkins
Major Investaors: Fluor Corporation
Technology Class: Water cooled
Reactor Type: Integral pressurized water reactor
Power Output (MWe/MWt): 70 MWe
Federal Engagement: DOE, NRC
Preferred Point of Contact: Ryan Dean, Sr. Public Affairs Specialist | rdean@nuscalepower.com

OKLO INC.

Oklo Inc. is developing fast fission power plants to deliver clean, reliable, and affordable energy at scale, establishing a domestic supply chain for critical radioisotopes, and advancing nuclear fuel recycling to convert nuclear waste into clean energy. Oklo was the first to receive a site use permit from the U.S. Department of Energy for a commercial advanced fission plant, was awarded fuel from Idaho National Laboratory, and submitted the first custom combined license application for an advanced reactor to the U.S. Nuclear Regulatory Commission. Oklo is also developing advanced fuel recycling technologies in collaboration with the U.S. Department of Energy and national laboratories.

Location: Santa Clara, CA
https://www.oklo.com/
Founded: 2013
Principal/CEO: Jacob DeWitte
Major Investors: Public company on the New York Stock Exchange NYSE: OKLO
Technology Class: Oklo's powerhouse is a fast reactor, part of the liquid metal fast reactor technology class with a proven operating legacy and significant potential for scalable clean energy.
Reactor Type: Fast Reactor
Power Output (MWe/MWT): 75 Mwe, 234 MWth
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Bonita Chester | media@oklo.com

RADIANT

RADIANT

Radiant is making nuclear power portable. Radiant's mission is to develop an economical, reliable reactor that will transform the nuclear industry through autonomous operation. Portable microreactors can be used for disaster relief scenarios, resilient backup power, or as a microgrid power source. Our design uses only proven, qualified materials and technology and will achieve full scale demonstration in 5 years.

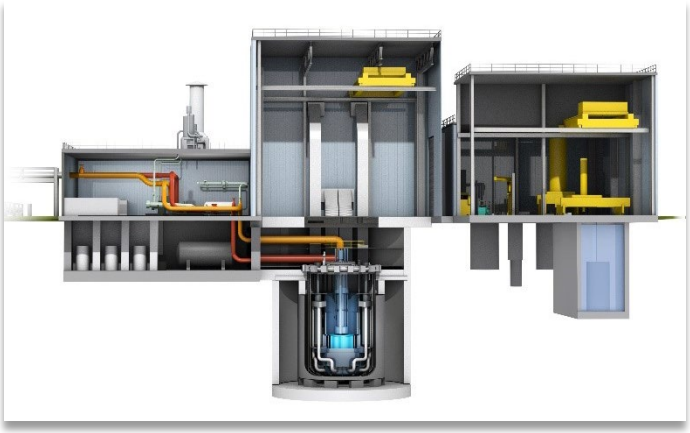
Location: El Segundo, CA
Founded: 2019
Principal/CEO: Douglas Bernauer
Major Investors: Boost VC
Technology Class: micro-HTGR
Reactor Type: HTGR
Power Output (MWe/MWt): 1.2 MWe /3.5 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC, NASA
Preferred Point of Contact: Douglas Bernauer | doug@radiantnuclear.com | 216-965-3509

https://www.radiantnuclear.com/

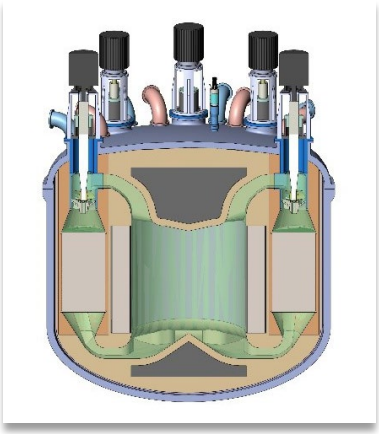
ADVANCED NUCLEAR | DEVELOPER

TERRAPOWER, LLC

TerraPower is a nuclear innovation company that originated with Bill Gates and a group of like-minded visionaries who evaluated the fundamental challenges to raising living standards around the world. TerraPower's mission is to solve the world's toughest problems in energy, climate and human health through innovative nuclear technology. The Natrium™ reactor and integrated energy storage system is redefining what nuclear energy can be and is being demonstrated at a retiring coal facility. The Molten Chloride Fast Reactor technology is expanding the ability of nuclear technology to decarbonize industry beyond electricity, and TerraPower Isotopes develops processes to extract radioisotopes as raw materials for use by cancer drug developers.



Natrium™ Reactor



Molten Chloride Fast Reactor

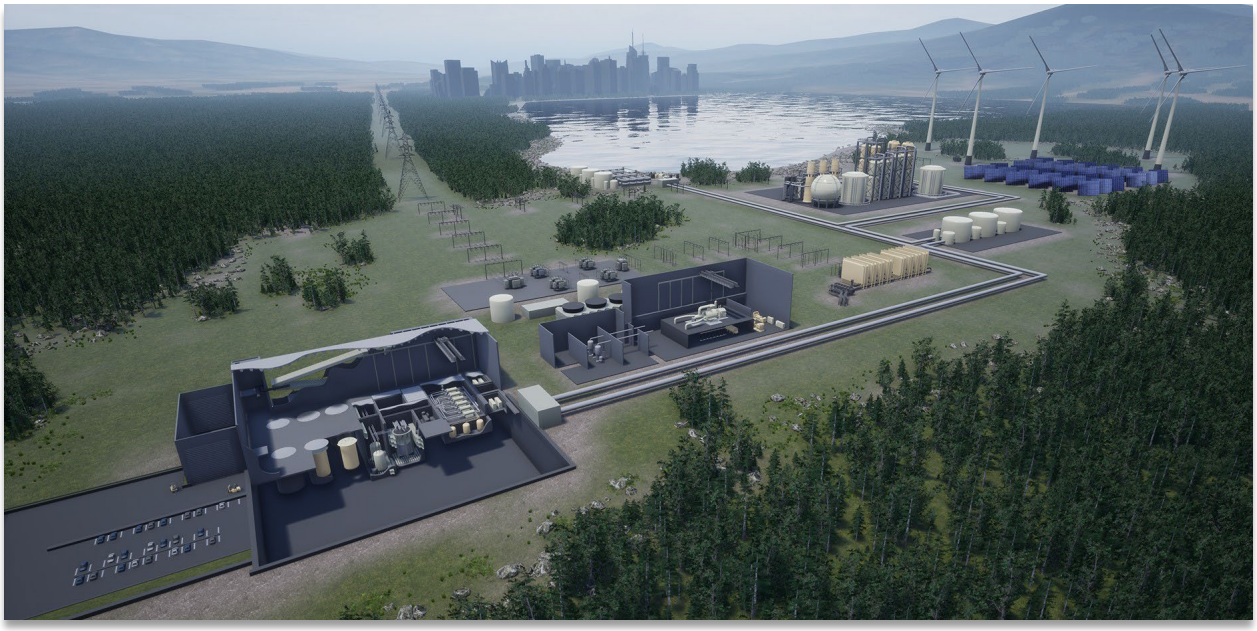
Location: Bellevue, WA
Founded: 2008
Principal/CEO: Bill Gates (Chairman), Chris Levesque (President and CEO)
Major Investors: Non-disclosed
Technology Class: Liquid metal and salt cooled
Reactor Type: Natrium™ reactor—sodium-cooled fast reactor; Molten chloride fast reactor—molten salt/liquid fuel fast reactor
Power Output (MWe/MWT): Natrium reactor—345 MWe for demonstration project, flexible sizing up to gigawatt scale; Molten chloride fast reactor—flexible size range up to 800 MWe
Federal Engagement: DOE, NRC
Preferred Point of Contact: press@terrapower.com

https://www.terrapower.com/

TERRESTRIAL ENERGY USA, INC.

ADVANCED NUCLEAR | DEVELOPER

Terrestrial Energy USA is developing an advanced Small Modular Reactor (aSMR) design using Integral Molten Salt Reactor (IMSR®) technology to provide cost-competitive electricity and process heat to U.S. industry, and plans for first commercial deployment in the 2020s. The IMSR® design is a graphite moderated, LEU once-through fueled, fluoride molten salt reactor (MSR) that uses a replaceable reactor core architecture.

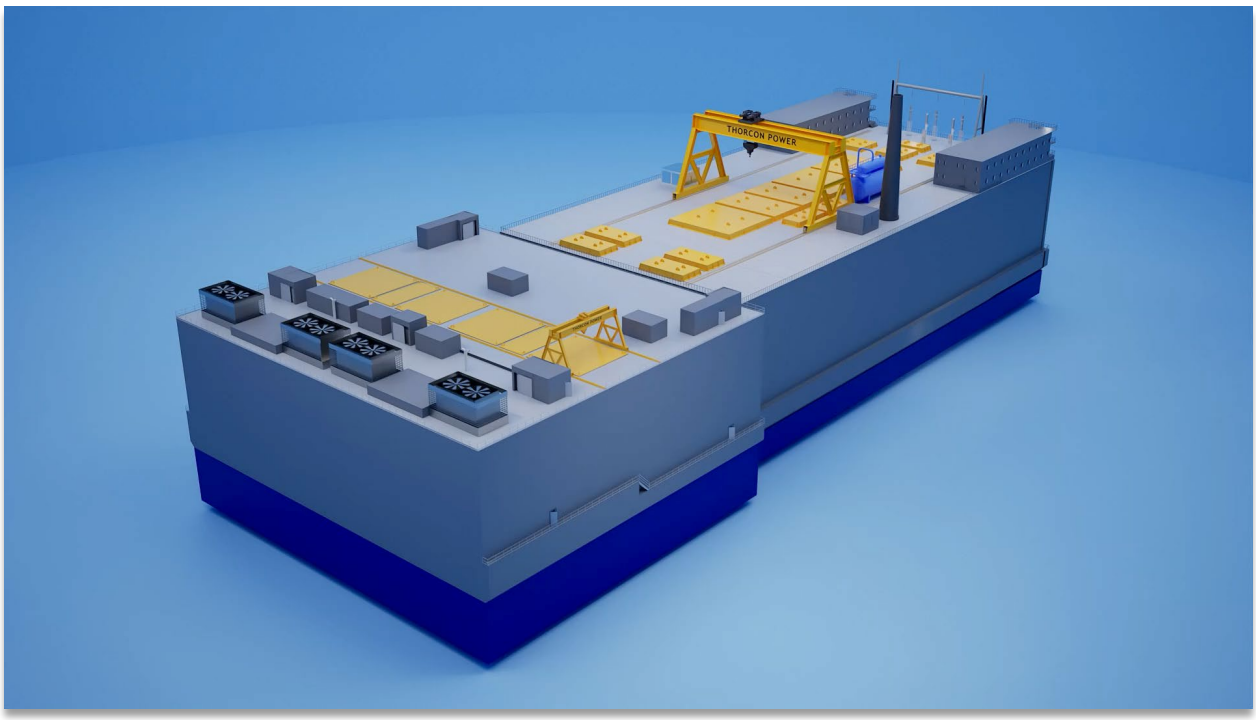


Location: Charlotte, NC
Founded: 2014
Principal/CEO: Simon Irish
Major Investors: Private investors
Technology Class: Advanced small modular reactor
Reactor Type: Molten salt reactor
Power Output (MWe/MWt): 390 MWe / 884 MWth
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Robin Rickman | rrickman@terrestrialusa.com | 646-687-8212 ext. 531

https://terrestrialusa.com/

THORCON INTERNATIONAL

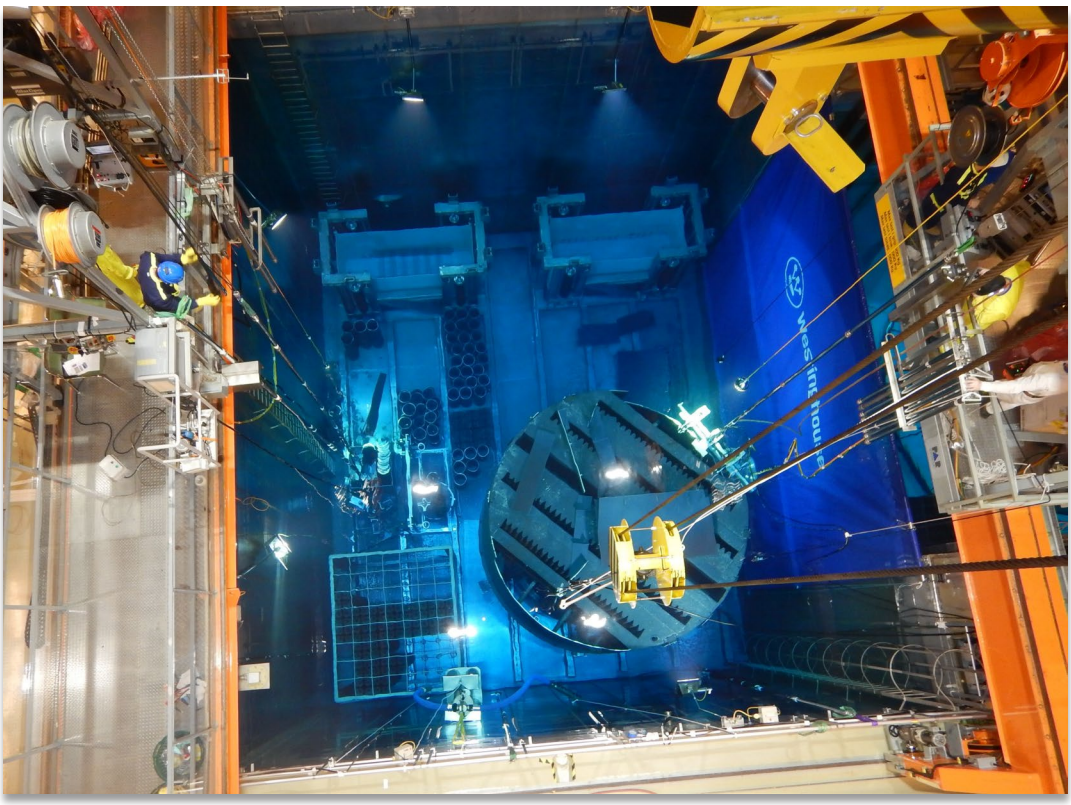
Thorcon International is developing a shipyard-produced, molten salt reactor power plant that generates clean, full-time electric power at a cost competitive with coal.



Location: Indonesia, Singapore, Dubai, US, Spain, Italy, S Korea https://thorconpower.com/
Founded: 2016
Principal/CEO: Matt Wilkinson
Major Investors: Non-disclosed
Technology Class: Salt cooled
Reactor Type: Thermal molten salt reactor
Power Output (MWe/MWt): 500 MWe / 2x557 MWt
Federal Engagement: N/A
Preferred Point of Contact: info@thorconpower.com

WESTNGHOUSE ELECTRIC COMPANY LLC

Westinghouse Electric Company is the world's pioneering nuclear energy company and is a leading supplier of nuclear plant products and technologies to utilities throughout the world. Westinghouse supplied the world's first commercial pressurized water reactor in 1957 in



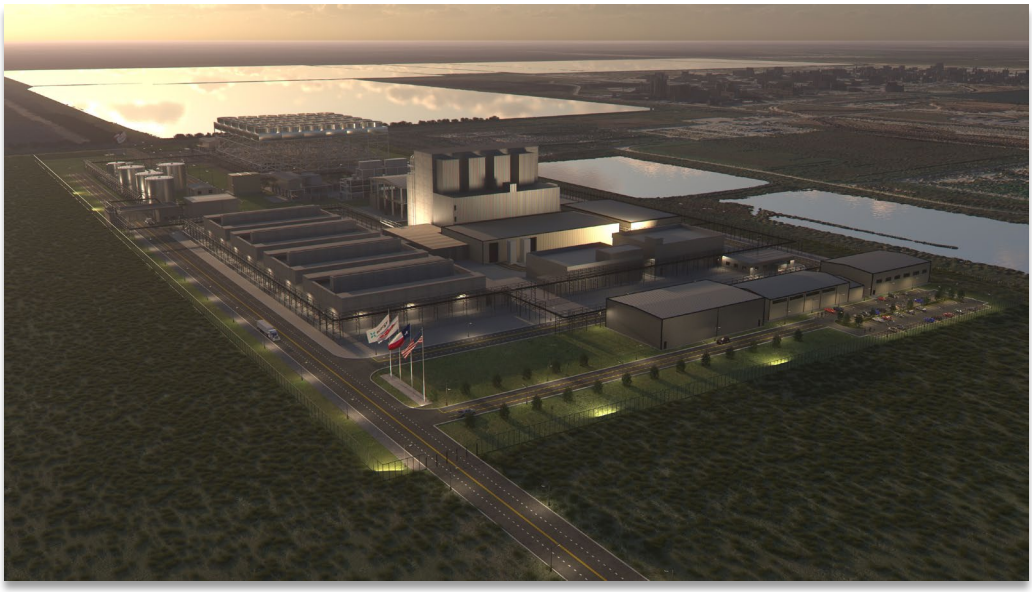
Shippingport, PA, United States. Today, Westinghouse technology is the basis for approximately one-half of the world's operating nuclear plants.

For more information, please visit www.westinghousenuclear.com.

Location: Cranberry Township, PA
https://www.westinghousenuclear.com/
Founded: 1886
Principal/CEO: Patrick Fragman, President and CEO
Major Investors: Brookfield Business Partners L.P.
Technology Class: Advanced modular reactor
Reactor Type: Lead cooled fast reactor; heat pipe cooled reactor
Power Output (MWe/MWt): Lead cooled fast reactor- 400-500 MWe / 950 MWt; Heat pipe cooled reactor- 0.5-6 MWe / 2-20 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Michael Valore | valorema@westinghouse.com

X-ENERGY, LLC

X-energy is a leading developer of advanced small modular nuclear reactors and fuel technology for clean energy generation that is redefining the nuclear energy industry through its development of safer and more efficient advanced small modular nuclear reactors and proprietary fuel to deliver reliable, zero-carbon and affordable energy to people around the world. X-energy's simplified, modular, and intrinsically safe SMR design expands applications and markets for deployment of nuclear technology and drives enhanced safety, lower cost and faster construction timelines when compared with other SMRs and conventional nuclear.



Location: Rockville, MD
Founded: 2009
Principal/CEO: J. Clay Sell, CEO | Kam Ghaffarian, Owner
Major Investors: Amazon, Ken Griffin, Segra Capital Management, Jane Street, Ares Management funds, Emerson Collective, University of Michigan, NGP
Technology Class: Gas cooled reactor
Reactor Type: High temperature gas cooled pebble bed reactor
Power Output (MWe/MWt): 80 MWe / 200 MWt
Federal Engagement: DOE, (Advanced Reactor Demonstration Program, ARPA-E), NRC
Preferred Point of Contact: https://x-energy.com/contact-us

https://www.x-energy.com/

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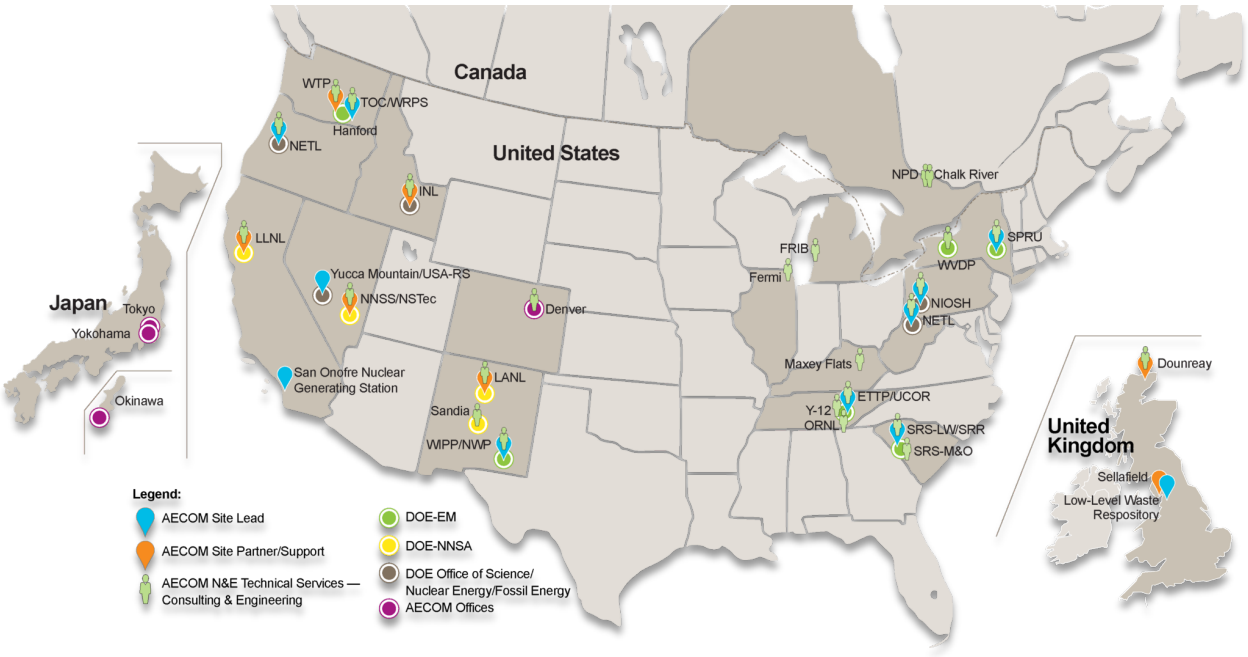
SUPPLIERS

AECOM

AECOM is a global network of experts working with clients, communities and colleagues to develop and implement innovative solutions to the world's most complex challenges, from delivering clean water and energy to helping governments maintain stability and security. AECOM connects expertise across services, markets, and geographies to deliver transformative outcomes.



Location: Aiken, SC
Founded: 1990
Principal/CEO: Mike Burke
Major Customers: Non-disclosed
Federal Engagement: DOE, Other
Preferred Point of Contact: general.inquiries@aecom.com

https://aecom.com/

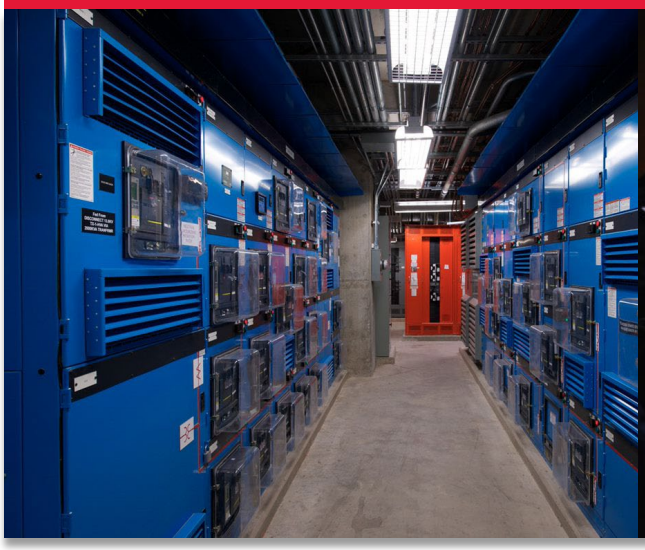
AeCON

Aecon provides a full spectrum of Engineering, Procurement, Fabrication, and Construction (EPFC) services, along with NQA-1 capabilities, specifically tailored to meet the demanding requirements of the federal sector.

Our complete range of client solutions spans the full project lifecycle from project development, financing, and investment through construction and turnover, and into commission, operations, and maintenance.

Capabilities:

- New Construction
- Demolition and Dismantlement
- Modifications, Upgrades, and Replacement
- Mechanical, Electrical, Civil/Structural
- Modularization and Equipment Fabrication
- Plant Equipment and Component Replacements
- Facility Maintenance and Temporary Structures



Location: Charlotte, NC
Founded: 1867
Principal/CEO: Brad Smalldridge, Vice President of Nuclear Operations
Major Customers: Commonwealth Fusion, ORNL, UCOR, SRS, SRNS, Fluor, Energy Solutions, Kiewit
Federal Engagement: DOE, ARPA-E, GAIN, NRC, ETEBA
Preferred Point of Contact: Al Magley, Director of U.S. Federal Services East
amagleyjr@aecon.com | 803-508-9494

https://www.aecon.com/us

ADVANCED NUCLEAR | SUPPLIER

ALPHASOURCE, INC.

ADVANCED NUCLEAR | SUPPLIER

At Alphasource®, we are driven by a simple and well-documented fact – the most efficient and cost-effective power plants are those that are the most safely maintained and operated. For the past 30 years, our mission has been to provide our Power Industry partners with cost-effective innovative and end user centric Foreign Material Exclusion (FME) and Drop Prevention product lines and services that increase plant efficiency and reduce the number of accidents and damaged equipment and tools. With over 125 years of Power Industry experience, our team ensures we provide only the products and services appropriate for your organizational and cultural needs. As a 4th generation, Woman-Owned and HUBZone certified business, Alphasource® is proud to support nuclear teams and facilities worldwide.

Custom-Manufactured FME Solutions of All Types and Sizes

Foreign material costs the International Power Industry billions of dollars each year in lost electrical generation, rework, equipment replacement/repair and manpower. As a response, Alphasource has been a provider of high quality engineered Foreign Material Exclusion (FME) control devices for the power industry for three decades. Over the years our products have become the industry standard and have been used extensively in power plants in the US and over 30 countries around the world, saving time, money, and other resources. All of our covers are certified to meet NFPA 701 Test Method 2 and NFPA 805 requirements, can be reused for years, and can be installed and removed in minutes without the use of tape, further reducing waste. Alphasource custom-manufactured covers can also be quickly designed for any project needs. For cost-effective methods to increase plant efficiency and maximize capacity factors, contact us today.

Python Safety™ by Toolsaver® Custom-Designed Drop Prevention Kits and Cabinets

Dropped objects can pose multiple risks in the workplace, such as injuring an employee or damaging expensive equipment. Our ToolSaver line of Drop Prevention tools was created to help significantly reduce the occurrence of these costly events. By striving to find solutions and listening to customer feedback, our product lines are innovative, high quality, and field proven. Importantly, our Drop Prevention tools are ISEA/ANSI 121-2018 certified. With a comprehensive product line of over 40 tool series, we are able to provide custom Drop Prevention product solutions in sizes ranging from large mobile cabinets to small, portable, self-contained kits stocked with items needed for your specific application. Let our expert team design a solution for you!

https://www.alphasourceintl.com

Location: Philadelphia, PA
Founded: 1908
Principal/CEO: Andrea Bookbinder
Major Customers: Nuclear Power Plants, Plant Service Companies, National Research Laboratories, and more
Federal Engagement: DOE
Preferred Point of Contact: Lee Lukas | lee@alphasourceintl.com | 410-610-6738

ANALYSIS AND MEASUREMENT SERVICES CORPORATION

INNOVATING NUCLEAR TECHNOLOGY

ANALYSIS AND MEASUREMENT SERVICES CORPORATION

ADVANCED NUCLEAR | SUPPLIER

AMS has decades of I&C testing experience within the operating fleet of light water reactors. As experts in I&C technologies, AMS offers next-generation reactor developers' key insight and support in a variety of areas including I&C design specification support, pre-qualification testing of I&C sensors and cabling, development of I&C maintenance strategies and implementation procedures, implementation of online monitoring technologies, and a variety of other maintenance and diagnostic testing services.

Location: Knoxville, TN
Founded: 1977
Principal/CEO: H.M. Hashemian
Major Customers: Nuclear Power Plants and Facilities
Federal Engagement: DOE, NRIC, GAIN
Preferred Point of Contact: Adam Deatherage | adam@ams-corp.com | 865-691-1756 ext.223

https://www.ams-corp.com/

ANSYS

When visionary companies need to know how their world-changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to lifesaving medical devices, the next great leaps in human advancement will be powered by Ansys.

Founded in the Pittsburgh region and now headquartered in Canonsburg, PA, Ansys is dedicated to advancing simulation. Our nearly 6,000 employees are singularly focused, our spirit of innovation is reflected in 580+ active patents, and we are proud is dedicated to advancing simulation. Our nearly 6,000 employees are singularly focused, our spirit of innovation is reflected in 580+ active patents, and we are proud members of S&P and NASDAQ100.

Nuclear reactors house extreme environments that are among the most difficult in the world for operating sensors. Yet these are exactly the environments where you need exquisite sensing capabilities for detailed system monitoring, control, and predictive maintenance to prevent catastrophe. Simulation is an essential part of the solution to this problem.

Physics-based simulation tools from Ansys are used in the nuclear industry to build, calibrate, validate, and deploy hybrid digital twins that provide real-time insights about a reactor through the power of virtual sensors. This is just one example of how digital twin technology is becoming increasingly important to nuclear power safety, by filling gaps in data and insight related to de-risking nuclear reactor design, licensing, and construction.

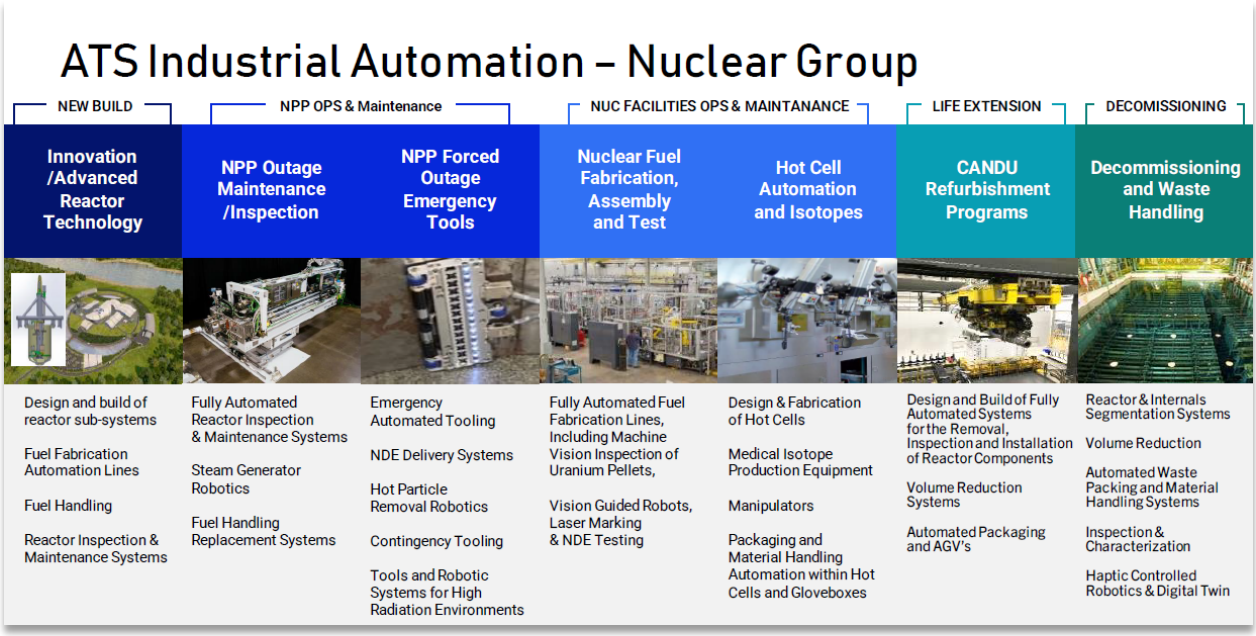
https://www.ansys.com/

Location: Global
Founded: 1970
Principal/CEO: Ajei Gopal
Major Customers: Non-disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: Mike Hancock | mike.hancock@ansys.com | 512-422-3093

ATS INDUSTRIAL AUTOMATION

ATS INDUSTRIAL AUTOMATION™

ATS Automation manufactures tooling and design automation for new reactor builds, refurbishment, operations and maintenance, and decommissioning across both large-scale and small modular reactors (SMRs). Automation yields reliable and repeatable processes that teams can plan and execute across locations and shifts.



Location: Columbus, OH
Founded: 1978
Principal/CEO: Andrew Hider
Major Customers: Nuscale, GE Power, Bruce Power, Ontario Power Generation, Holtec, Energy Solutions, Cameco, Aecon, Global Nuclear Fuel, General Motors
Federal Engagement: NRC
Preferred Point of Contact: Jason Sulzener | jsulzener@atsautomation.com | 614-671-4607

https://atsindustrialautomation.com/

BEAUDREY

ADVANCED NUCLEAR | SUPPLIER

BEAUDREY
ENGAGED FOR DEBRIS-FREE WATER ON OUR PLANET

Equipment supplier specialized in water screening, with 2 main lines of products:

- **Intake screens:** stoplogs and penstocks, bar screens and trash rakes, travelling band screens, drum screens, fish-protection screens and ancillaries.
- **Condenser protection:** debris filters and tube cleaning systems / zero ball loss (ZBLTM) systems.

Service provider of high-end engineering, project management, installation and commissioning :

- **Engineering:** all equipment conceived and dimensioned according to project-specific data, consulting regarding equipment during pre-engineering for a new project or rehabilitation for an existing site.
- **Project management:** planning management with all parties involved, preparation of technical and contractual documentation, best-in-class quality control and inspection procedures and supply chain management.
- **Installation & Commissioning:** supervision of local and outsourced installation teams with an ability to deliver a turnkey project if requested.
- **Aftersales:** supply of spare parts and retrofit of components.

https://www.beaudrey.com/

Location: Paris, France
Founded: 1912
Principal/CEO: Edward Jackson
Major Customers: EDF, Duke Energy, Florida Power & Light
Federal Engagement:
Preferred Point of Contact: beaudrey@beaudrey.com

BECHTEL NUCLER, SECURITY & ENVIRONMENTAL

Bechtel's Nuclear, Security & Environmental (NS&E) global business unit leverages Bechtel's 76 years in the nuclear industry and the expertise of over 4100 employees. NS&E's integrated engineering, procurement, and construction (EPC) execution of both commercial and U.S. Government nuclear projects afford us proven capabilities across the nuclear lifecycle. We perform integrated EPC and management & operations across a broad range of facilities, encompassing commercial nuclear power plant design and construction, nuclear waste treatment and disposal, strategic deterrent modernization, naval nuclear propulsion systems, and capital projects on government facilities. Details on Bechtel's values, mission, capabilities, and projects are located on our website, www.bechtel.com.

Bechtel has been an integral player in the nuclear power industry since its inception in the 1950s. In fact, Bechtel created the world's first reactor to generate usable electricity. Our customers have trusted Bechtel to deliver safe, secure, reliable nuclear energy for seven decades. As the U.S. industry leader in integrated EPC services, we have designed, built, or provided services to more than 80 percent of the nuclear plants in the U.S. and 150 plants worldwide. Our expertise spans across all major reactor designs, delivering more than 76,000 MW of new nuclear generation capacity. Our key markets include:

- **Large Reactors:** Bechtel offers the talent, tools, and experience necessary to provide delivery certainty on large scale nuclear projects. With a focus on safety, quality, and innovation, our portfolio includes delivering the first new nuclear plant the U.S. in over a generation at Plant Vogtle, as well as launching Poland's civil nuclear power program with the planned delivery of three AP1000 units.
- **Small & Advanced Reactors:** Bechtel is leveraging our integrated EPC tools and talent to deliver first-of-a-kind advanced reactors, from light water to sodium and other emerging technologies. We are the EPC partner for TerraPower in deploying its Natrium™ technology and are supporting TVA in its GE Vernova Hitachi BWRX-300 deployment.
- **Fuel Cycle:** Since the earliest commercial nuclear reactors, Bechtel has contributed to every phase of the industry's development, including the fuel cycle. We are currently supporting our partners as they develop projects to secure Low Enriched Uranium/High-Assay Low-Enriched Uranium production globally.
- **Major Modifications:** Bechtel has provided EPC major modification services to operating nuclear plants since the 1960's. We are the industry leader in steam generator and reactor head replacements and have performed seven major extended power uprates that added over 700MW to the grid.

https://www.bechtel.com/

Location: Reston, VA
Founded: 1898
Principal/CEO: Dena Volovar
Major Customers: U.S. and internation utilities, technology developers
Federal Engagement: DOE, NRC, DOD, NASA
Preferred Point of Contact: Todd Powers | trpowers@bechtel.com | 571-392-3405

BLUESTONE GROUP

Bluestone Group is a dynamic technical services company, specializing in staff augmentation and engineering consulting. With a strong emphasis on passion, trust, and respect, Bluestone Group is dedicated to delivering customer services that drive success for their clients. Bluestone Group is a proud certified Service-Disabled Veteran Owned Small Business, Veteran Owned Small Business, and Woman Owned Small Business, which has established itself as a leading technical services company across all energy sectors.

AWARDED: 2023 Best Small Business and 2024 Top Construction Staffing Company.

Services Offered:

1. Staff Augmentation:

Bluestone Group offers staff augmentation services to help businesses meet their workforce requirements fast and effectively. With an extensive team of skilled professionals, Bluestone Group provides contract and permanent staffing across a broad range of technical disciplines. By understanding the technical needs of each client, Bluestone Group ensures that they provide the best qualified professionals fast and efficiently.

2. Engineering Consulting:

Bluestone Group's engineering consulting services provide clients with expert guidance and strategic options to overcome complex technical challenges. Their team of experienced engineers and consultants collaborates closely with clients to deeply understand their jobs offering cost savings strategies and recommendations. Whether it's conducting Bluestone processes, or providing project management support, Bluestone Group's passion for engineering excellence drives them to deliver value-added ideas that enhance clients' operations.

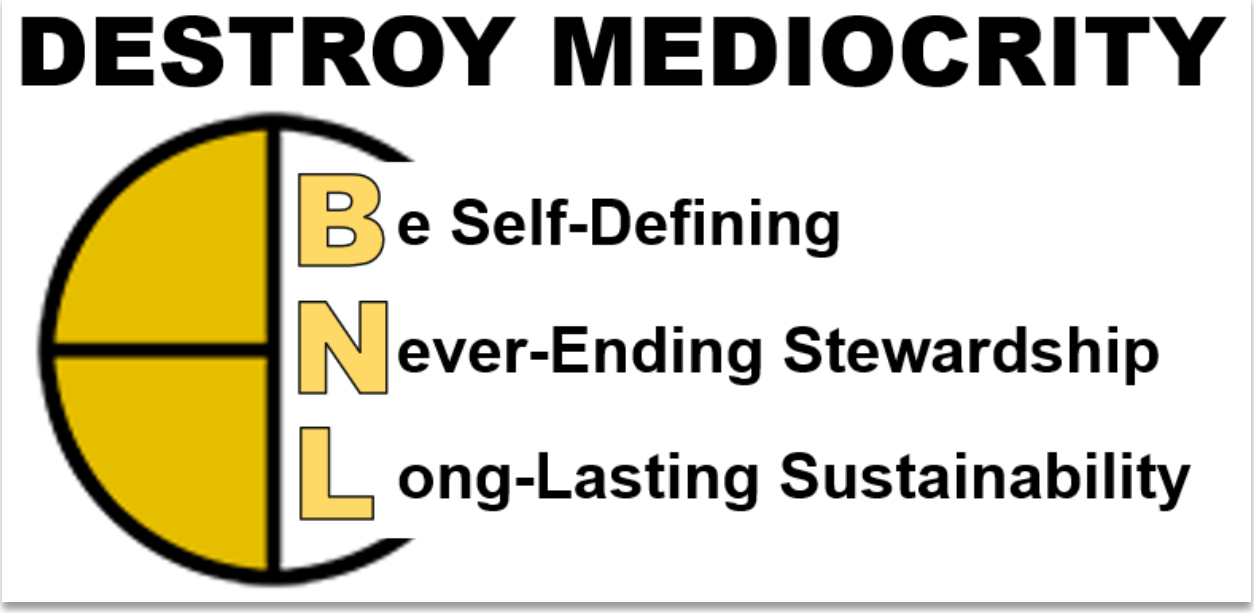
Location: Charlotte, NC
Founded: 2020
Principal/CEO: Lauren Thew
Major Customers: Urenco USA, Los Alamos National Laboratory, Hanford Site, Lawrence Berkeley National Laboratory, and Oak Ridge National Laboratory
Federal Engagement: DOE
Preferred Point of Contact: Lauren Thew | lauren@bluestonego.com | 775-287-8240

https://bluestonego.com/

BNL INDUSTRIES INC,

BNL Industries, Inc. is a leading designer and manufacturer of high-quality ball and check valves for use in the defense/marine, power energy, aerospace, process, and commercial industries. Since 1987, BNL has earned a reputation for dependability and excellence. Our product range includes two-way and three-way ball valves (manual, pneumatic, and electric actuated), In-Line check valves, and Twinline check valves. Working with our customers, we provide solutions to your non-standard requirements. Our innovation, quality, and service will exceed your expectations.

At BNL, the customer comes FIRST 100% of the time.



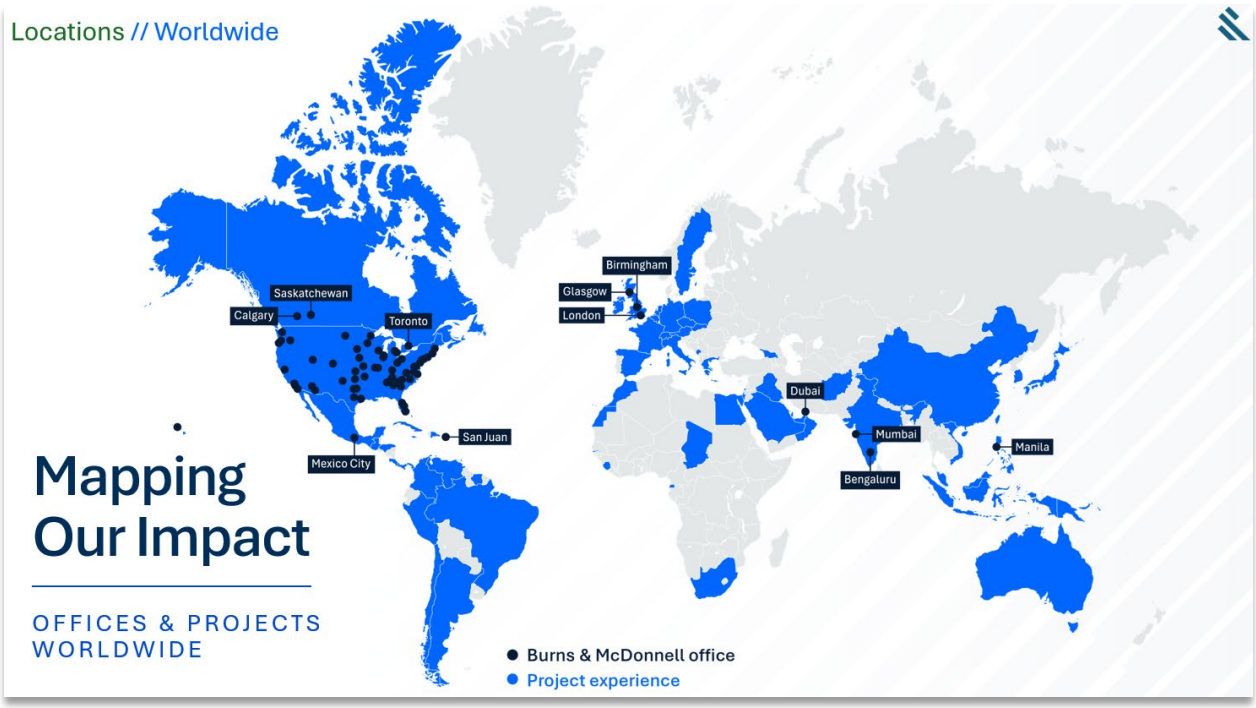
Location: Vernon, CT
Founded: 1987
Principal/CEO: Christopher Bain
Major Customers: All US Nuclear Power Plants
Federal Engagement: NRC
Preferred Point of Contact: Savannah Trubisz | savannah.trubisz@bnl.com | 860-870-6222

https://www.bnl.com

ADVANCED NUCLEAR | SUPPLIER

BURNS& MCDONNELL

Burns & McDonnell is a worldwide leader in engineering and construction with over 12,000 employee-owners in over 75 offices across the U.S. and throughout the world. At Burns & McDonnell, our engineers, architects, scientists, and construction professionals do more than plan, design and implement. With a mission that remains unchanged since our founding in 1898 - Make Our Clients Successful - our team partners with you on the toughest challenges, constantly working to make the world an amazing place.



Location: Kansas City, MO; Other worldwide offices
Founded: 1898
Principal/CEO: Leslie Duke
Major Customers: X-energy, BWXT, Nuclear Operating Plant Fleet, Other Confidential Clients
Federal Engagement: DOE, DOD, NRC, Other
Preferred Point of Contact: Glenn Neises | gneises@burnsmcd.com

https://www.burnsmcd.com

BWX TECHNOLOGIES, INC.

BWXT has been involved in the nuclear industry since its beginning. As a federal contractor, BWXT provides nuclear components and fuel for the U.S. Navy's submarine and aircraft carrier fleet. Commercially, BWXT manufactures heavy components for CANDU reactors, provides services for the U.S. and Canadian nuclear markets, and provides engineering and design capabilities for advanced reactor technologies and fuel.

Location: Lynchburg, VA
Founded: 1857
Principal/CEO: Rex D. Geveden
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, Other
Preferred Point of Contact: John Dobken | jcdobken@bwxt.com | 202-641-3013

https://www.bwxt.com/

CAROLINA FABRICATORS, INC.

Carolina Fabricators is a small business located in West Columbia, SC that specializes in the fabrication, welding, and machining of products and systems for DOE and the Commercial Nuclear industry while following our strict quality assurance program that is fully compliant with ASME NQA-1, 2008 Edition, Part I, as amended by ASME NQA-1a-2009, including applicable more stringent requirements of previous editions; 10CFR71 Subpart H; 10CFR50 Appendix B; and 10CFR Part 21, along with ASME Section VIII Boiler and Pressure Vessel Code.

We have an extensive history of manufacturing components, weldments, and assemblies for our commercial nuclear utilities, advanced reactors, and our DOE sites. We manufacture a variety of products including (but not limited to) tanks, liners, containers, pressure vessels, piping, pipe spools, telescoping piping assemblies, precision machined components, process skids, fissile carts, source vials, pipe supports, assemblies, rigging/lifting equipment, frames, AISC Structural steel items (stairs, platforms, embeds, handrails, etc.) and many other custom fabricated metal products along with supporting commercial and safety related material supply.

Location: West Columbia, SC
Founded: 1992
Principal/CEO: Brad Hughes
Major Customers: SRNS, SRMC, Bechtel/Hanford, Framatome, Orano, Energy Solutions, BEA/INL, CNS Pantex, Y-12, UPF, Westinghouse, WMG, Atkins
Federal Engagement: DOE, GAIN, NRC, NASA
Preferred Point of Contact: Patrick Halligan | phalligan@carolinafab.com | 803-383-2033

https://carolinafab.com

CENTRUS TECHNICAL SOLUTIONS

Centrus Technical Solutions provides a one-stop shop for meeting the advanced nuclear industry's manufacturing and fuel design needs. Based on our experience with nuclear fuel, multi-physics modeling, engineering, design, advanced manufacturing, and project management, we can assist with the design and manufacture of critical components as well as the business planning, design, and licensing of facilities to produce new fuels. From design and engineering to NQA-1 compliant manufacturing, Centrus Technical Solutions is your trusted, full-service partner.

Location: Oak Ridge, TN
Founded: 1998
Principal/CEO: Larry Cutlip (Vice President Field Operations)
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NRC, Oak Ridge National Laboratory
Preferred Point of Contact: Dan Leistikow | leistikowd@centrusenergy.com

https://www.centrusenergy.com/

CERAMIC TUBULAR PRODUCTS, LLC

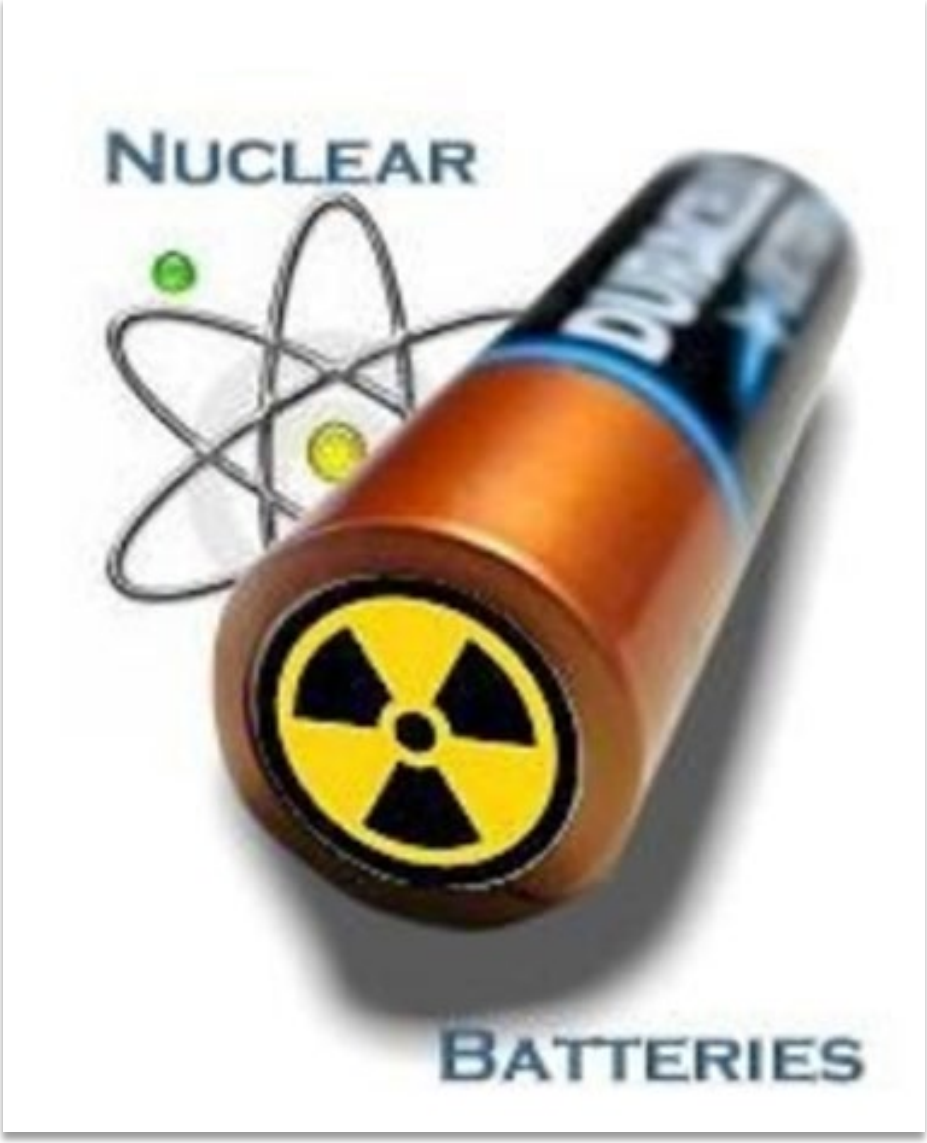
Ceramic Tubular Products develops and supplies very high temperature ceramic tubes and materials for existing and future nuclear and solar thermal applications.

Location: Lynchburg, VA
Founded: 2006
Principal/CEO: Jeffrey Halfinger
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Jeffrey Halfinger | https://ctp-usa.com/contact/ | 424-239-1979

https://www.ctp-usa.com/

COMPETITIVE ACCESS SYSTEMS, INC.

Competitive Access Systems (CAS), Inc. develops self-recharging nuclear battery technologies.



Location: Wylie, TX
Founded: 1996
Principal/CEO: Eric Delangis
Major Customers: Non-disclosed
Federal Engagement: Non-disclosed
Preferred Point of Contact: Linda Delangis | ldelangis@neukenergy.com

COMPREX, LLC

FinRex® and ShimRex® Technologies

CompRex, LLC designs custom compact heat exchangers and compact heat exchange reactors for a wide range of chemical process applications where efficient heat transfer is critical.

Location: De Pere, WI
Founded: 2014
Principal/CEO: Zhijun Jia
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Zhijun Jia | zhijun.jia@comprex-llc.com

https://www.comprex-llc.com

CONCURRENT TECHNOLOGIES CORPORATION

Concurrent Technologies Corporation (CTC) is recognized as one of the world's premier nonprofit applied scientific research and development organizations for the creation and implementation of advanced manufacturing technologies. The skills and processes developed at CTC are leveraged by the Center for Advanced Nuclear Manufacturing (CANM) to benefit both the emerging SMR/AR industry and the legacy reactor fleet.

Location: Johnstown, PA
Founded: 1987
Principal/CEO: Edward J. Sheehan, Jr.
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Kevin Merichko | canm@ctc.com

https://www.ctc.com/

CURTISS-WRIGHT

Curtiss-Wright has supported the commercial nuclear power industry since its inception. We continue to make plants safer, more efficient, and more reliable across the globe. With more than 60 years of experience in power generation, we have significantly broadened our product offerings in the commercial nuclear power market over time - through acquisition, innovation, and organic growth. Our offerings include everything from commercial off-the-shelf seals to custom engineered control rod drive mechanisms, from analog instruments to FPGA-based Digital Control Systems.

Our Quality Assurance programs are maintained at the highest standards of excellence in support of rigorous industry requirements. We meet 10CFR50, Appendix B; ASME NQA-1; and ASME Sections III and XI. We possess ASME N, NPT, NR, NS, UV, and VR Certificates, including Material Organization (QSC-614) capabilities. Our quality programs meet the requirements of countries such as Canada, France, China, and Russia, and are NUPIC and NIAC audited.

Today, Curtiss-Wright has installations at hundreds of nuclear plants in over 25 countries worldwide.

Location: Global
Founded: 1929
Principal/CEO: Lynn Bamford, CEO
Major Customers: Exelon, Entergy, TVA, KHNP, OPG, Bruce Power, Bechtel
Federal Engagement: DOE, DOD, NRC
Preferred Point of Contact: Gary Wolski | gwolski@curtisswright.com

https://www.cwnuclear.com/

DBD INC.

DBD International delivers the expertise that powers the world's most complex missions. As a federally recognized Small Business and DOE Mentor Protégé participant, we help clients cut risk, reduce cost, and deliver critical engineering, decommissioning, and waste management projects with absolute confidence.

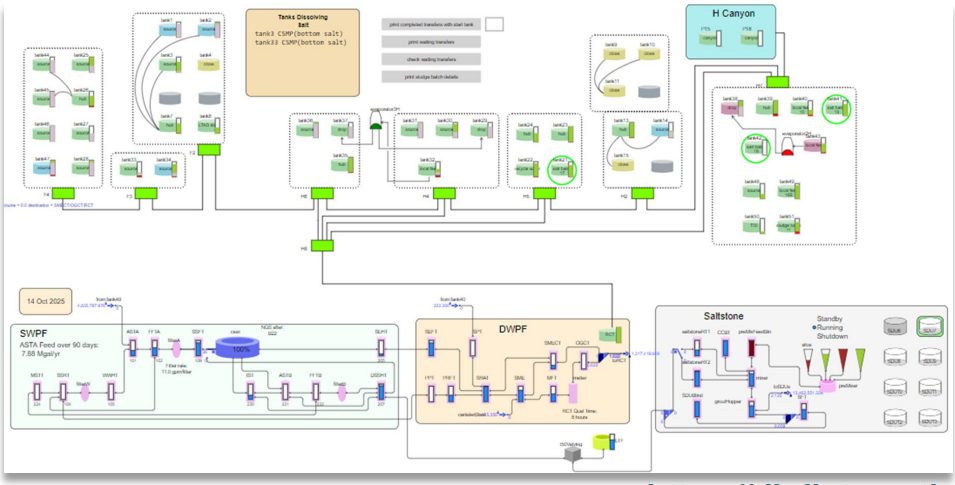
We support government and commercial partners across the DOE Environmental Management complex and the UK's generation, cleanup, and clean energy sectors. With offices across the U.S. and UK, we bring global reach with the agility of a specialized, mission-focused team.

Our strengths—Mission Support, Nuclear Engineering, and Assurance—bring clarity to complexity. From front-end project definition and integrated design to advanced simulation, requirements consolidation, and supply chain strengthening, we set projects up for success from day one.

Our Assurance experts drive regulator-ready safety cases, hazard analyses, and culture programs that build safe, empowered, high-performing workforces.

Through Mission Support, we unite optimization, transformation, and delivery—leveraging modeling, analytics, visualization, stakeholder alignment, and disciplined program execution to elevate mission readiness and performance.

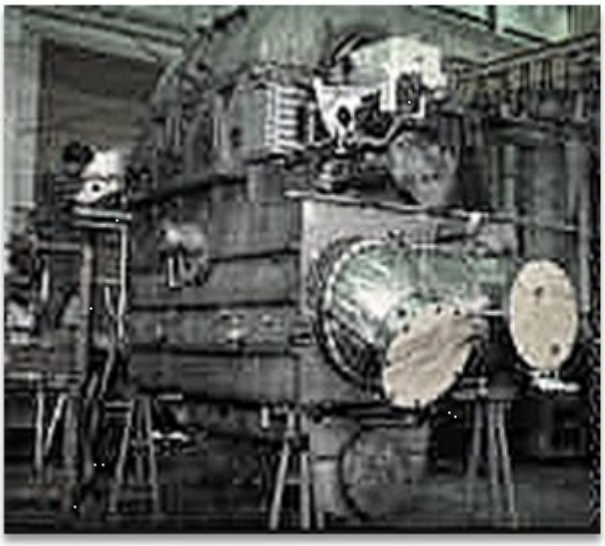
Across every service, we align human expertise and digital capability to ensure the right decisions and actions happen at the right time—maximizing mission success while minimizing cost, risk, and schedule impacts.



Location: Richland, WA
https://dbdinternational.com/
Founded: 2004
Principal/CEO: Thomas Keegan
Major Customers: Savannah River Mission Completion (SRMC),Savannah River Nuclear Solutions (SRNS), Savannah River National Laboratory (SRNL), Idaho Environmental Coalition (IEC), Central Plateau Cleanup Company (CPCCo), Hanford Mission Integration Solutions (HMIS), United Cleanup Oak Ridge (UCOR), Hanford Tank Waste Operations and Closure (H2C)
Federal Engagement: DOE
Preferred Point of Contact: Charlie Jackson | cjackson@dbdinternational.com | 509 491-7314

DC FABRICATORS, INC.

DC Fabricators manufactures heat exchange equipment for the power generation and defense industries. DCF specializes in small to medium size cylindrical and rectangular condensers and heat exchangers for industrial and cogeneration applications, geothermal power plants, large main station condensers (to over 500,000 sq.ft.), process heat exchangers with pressures over 2,000 psi, and nuclear power systems. DCF's backs up its manufacturing capabilities with complete engineering analysis and design capabilities that conform to ASME Code, TEMA Standards, HEI Standards for Steam Condensers, and International Codes and Standards.



Location: Florence, NJ
Founded: 1993
Principal/CEO: Gary Butler
Major Customers: US Navy, General Dynamics, Bechtel, Huntington Ingalls, Talen Energy, NPPD, Southern Illinois Power, Eastman Chemical
Federal Engagement: DOE, DOD
Preferred Point of Contact: Derrick Phillips | dphillips@dcfab.com | 609-499-3000 ext. 225

https://www.dcfab.com/

DUBOSE NATIONAL ENERGY SERVICES

DuBose National Energy Services, Inc (DNES), an ASME certificate holder since 1977, proudly offers quality products with exceptional (24/7/365) service. DNES carries one of the largest, most diversified inventories of nuclear qualified material in North America. DNES stocks sheet, plate, bar, pipe, fittings, flanges, structural shapes, tubing, fasteners, weld filler metal and Unistrut® metal framing products. DNES supports common carbon and alloy steel to highly corrosive-resistant stainless; nickel alloys to aluminum, copper and bronze. In addition, DNES offers many value-added services from machining, fabricating, sawing, burning, cleaning, blasting, painting, heat treating, in-house testing (including NDE), and reverse engineering. DNES products and services are offered under a comprehensive quality program based on ASME Section III, NCA/ WA-4000 and Division 5 Class A & B accreditation for NA, NPT and NS activities; 10CFR50 Appendix B; ASME NQA-1; ANSI N45.2; CSA N299.2/3; & MIL-I-45208A. DNES is also accredited under AISC and AWS, as well as ASME Section VIII (Pressure Vessels, Division 1 – U & R Stamps). DNES is NUPIC and NIAC Audited.

Location: Clinton, NC
Founded: 1990
Principal/CEO: Richard Rogers, President | Beau Laslo, General Mgr | Jashua Grimm, Director of Quality
Major Customers: USA: All nuclear utilities, DOE, DOD, National Labs and ~300 OEM's/Fabricators/EPC's who support USA nuclear programs.
Canada: All nuclear utilities, National Labs and ~75 Canadian OEM's/Fabricators/EPC's who support Canada's nuclear programs.
Worldwide: Several Utilities and OEM's/Fabricators/EPC's nuclear programs.
Federal Engagement: DOE, DOD
Preferred Point of Contact: Beau Laslo | beau.laslo@dubosenes.com | 910-590-2151

https://www.dubosenes.com/

ADVANCED NUCLEAR | SUPPLIER

ED FAGAN INC.

ADVANCED NUCLEAR | SUPPLIER

Distributor and manufacturer of Controlled Expansion, Magnetic and Refractory Metals and Alloys. Ed Fagan Inc. has facilities in Franklin Lakes, NJ and Los Alamitos, Ca.

If you need specialty metals or special purpose alloys for Aerospace/Aviation, Defense, Electronics, Ceramic, Heat Treating, Magnetic, Medical, Lighting, Optical, Telecommunications, or other high-technology, industrial application, call Ed Fagan Inc.

EFI has supplied specialty metals, alloys, and hard-to-locate materials to these markets since 1965. We have a large comprehensive inventory of Controlled Expansion Alloys, Electrical/Electronic Grade Nickel; as well as Soft Magnetic Alloys, and Refractory Metals and Alloys. We stock the highest quality materials available in forms such as: Bar, Rod, Sheet, Plate, Strip, and Wire… from the highest quality mills such as VDM Metals GmbH and Carpenter Technology Corp. We stock these materials in many gauges, widths/lengths, and conditions for immediate delivery.

Location: Franklin Lakes, NJ
Founded: 1965
Principal/CEO: Ed Fagan, President
Major Customers: Argonne National Laboratories, Sandia National Laboratories, Lawrence Livermore National Laboratories, General Electric
Federal Engagement: DOE, ARPA-E, NRC
Preferred Point of Contact: Richard Manberg | richard@edfagan.com | 201-891-4003
Shant Simonian | shant@edfagan.com | 562-431-2568

https://www.efinemetals.com/

EMPYREAN

Premiere Customized Staffing Solutions for the Nuclear Energy Industry. Founded in 2000, Empyrean takes tremendous pride in consistently delivering top talent in the nuclear industry. We specialize in working closely with our clients to understand the exact need, and strive to have the right individual placed in the shortest time possible. Empyrean is a member of the Consulting Solutions family of companies.

Location: Jacksonville, FL
Founded: 2000
Principal/CEO: Michael Werblun, President and CEO, Consulting Solutions
Major Customers: Southern Nuclear, NuScale, GE Hitachi, Duke Energy, Westinghouse, Songs Decommissioning Solutions, SIMCO
Federal Engagement: DOE
Preferred Point of Contact: Valerie Reed | vareed@empryeanonline.com | 412-528-1588

https://empyreanonline.com/

ENERCON

ENERCON

Excellence—Every project. Every day.

ENERCON is a multi-discipline engineering and environmental firm focused on empowering our people and partnering with our clients to support the safe and efficient production, delivery and use of energy. As the world moves towards more sustainable, energy-efficient infrastructure, ENERCON actively works to advance the nuclear industry through engineering support for advanced and small modular reactors (SMR). Since ENERCON was formed in 1983, ENERCON has been one of the largest engineering firms supporting the U.S. commercial and federal nuclear marketplace. ENERCON is an industry leader in providing engineering, licensing, and environmental services to numerous advanced nuclear projects.

ENERCON has performed site and nuclear technology selection studies, developed design certification applications, license applications, and environmental reports for advanced nuclear. ENERCON also has substantial engineering experience supporting advance nuclear clients with plant integration engineering, system and component engineering, codes and standards, PRA, and safety analysis. Our long list of satisfied clients has been built on our solid reputation as a premier provider of high-quality, cost-effective services.

Location: Kennesaw, GA
Founded: 1983
Principal/CEO: Robert Bryan
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jay Basken, P.E. | jbasken@enercon.com | 770-880-9351
Nathan Jackson, P.E. | njackson@enercon.com | 985-778-6301

https://www.enercon.com/

ENGINEERING MECHANICS CORPORATION OF COLUMBUS

ADVANCED NUCLEAR | SUPPLIER

Engineering Mechanics Corporation of Columbus (Emc^2) is an employee-owned engineering research and development consulting company focused on materials, structural integrity and reliability of complex systems. We provide high quality engineering services and products that are innovative and responsive to our clients' schedule and budgetary requirements. Emc^2 nurtures creativity, continually invests in staff development and new technologies, and collaborates with our clients to assemble the best combination of experts to solve critical problems for the commercial and governmental communities we serve. We have extensive experience in high temperature computational damage and fracture modeling along with extensive test facilities. We helped develop the NRC's xLPR probabilistic leak before break code.

Since our founding in the last century, Emc^2 has always taken pride in our leadership role on various Codes and Standards setting committees. We remain committed to our mission to provide experimental, computational, reliability and analytical solutions to client needs while also supporting societal goals of insuring safe operations of systems of all sizes and complexity.

Engineering Mechanics Corporation of Columbus
Laboratory Facilities

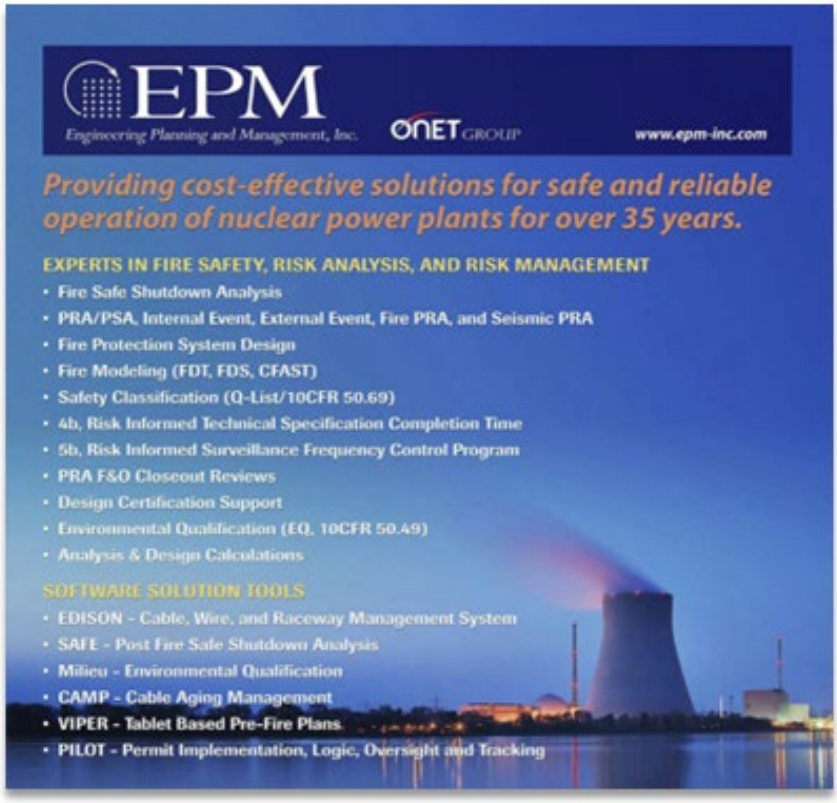
Location: Columbus, OH
Founded: 1998
Principal/CEO: Gery Wilkowski , CEO, F.W. Brust, Principal
Major Customers: Energy Industry (US NRC, Department of Energy, US Navy Nuclear, National Aeronautics and Space Administration, Department of Transportation, Heavy Industry, Medical industry, International Nuclear Regulators.
Federal Engagement: DOD, Navy, NASA
Preferred Point of Contact: Frederick (Bud) Brust | bbrust@emc-sq.com | 614-459-3200

https://www.emc-sq.com/

ENGINEERING PLANNING and MANAGEMENT

ADVANCED NUCLEAR | SUPPLIER

EPM is a multi-discipline, ASME NQA-1:2015 and ISO 9001:2015 compliant, engineering company specializing in fire protection and fire modeling, probabilistic risk assessment (PRA), safe shutdown / electrical separation analysis, chemical process safety, and software development. Our cross-functional teams allow EPM to provide integrated specialty engineering and software solutions to assist our U.S. and international customers with regulatory compliance, design certification, risk management, and process efficiency at their facilities. We have built a reputation as a well-respected engineering services and software provider to U.S. and international customers for over 35 years.



Location: Framingham, MA
Founded: March 1980
Principal/CEO: Robert Kalantari
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Alan Jelalian | ahj@epm-inc.com | 508-532-7131

https://www.epm-inc.com/

EXCEL SERVICES CORPORATION

EXCEL Services Corporation (EXCEL) has vast domestic and global technical, licensing, and regulatory experience, working with multiple regulatory bodies and the IAEA. EXCEL has worked with numerous nuclear plant designers and operators to develop and implement technical, licensing, and regulatory strategies for all phases of the nuclear plant life cycle, from design certification, initial licensing, license renewal, to decommissioning. EXCEL provides total nuclear infrastructure setup for new nuclear build countries. EXCEL combines a broad and deep knowledge of the industry with world-class technical expertise, problem-solving consultants, and cost saving mechanisms to create high impact solutions to solve difficult challenges faced by energy production and other critical infrastructure clients.

Location: Rockville, MD
Founded: 1985
Principal/CEO: Donald R. Hoffman
Major Customers: EXCEL has supported all the US nuclear utilities and over 31 countries worldwide.
Federal Engagement: DOE, NRC
Preferred Point of Contact: Jim Andersen | jim.andersen@excelservices.com | 301-984-4400

https://www.excelservices.com/

ADVANCED NUCLEAR | SUPPLIER

EXYN TECHNOLOGIES

Exyn Technologies is pioneering autonomous aerial robot systems for complex, GPS-denied environments. The company's full-stack solution enables flexible deployment of single or multi-robots that can intelligently navigate and dynamically adapt to complex environments in real-time. Exyn's autonomous robotic solution can integrate specialized sensors (temperature, radiological, IR, visual camera) to record data in dangerous or conventionally inaccessible locations. That data will be placed / visualized / georeferenced in 3D space onto of the survey grade point cloud for easy consumption and analytics.

Location: Philadelphia, PA
Founded: 2014
Principal/CEO: Nader Elm
Major Customers: Mining Space: Dundee Precious Metals, Vale, etc.
Nuclear: Demonstration of Technology with EPRI
Federal Engagement: Other
Preferred Point of Contact: Harry Erhardt | https://www.exyn.com/about/contact | 215-999-0200

https://www.exyn.com/

F&J SPECIALTY PRODUCTS, INC.

ISO9001:2015 certified manufacturer of traditional and microprocessor-controlled air sampling and airflow calibration instruments, air sampling accessories and consumables. Products include portable and fixed-station low volume and high-volume air samplers, PAS, tritium and C-14 systems. Consumables include charcoal and silver zeolite radioiodine collection cartridges and particulate filter media.

Location: Ocala, FL
Founded: 1979
Principal/CEO: Frank M. Gavila
Major Customers: Non-disclosed
Federal Engagement: DOE, EPA, Other
Preferred Point of Contact: fandj@fjspecialty.com | 352-680-1177

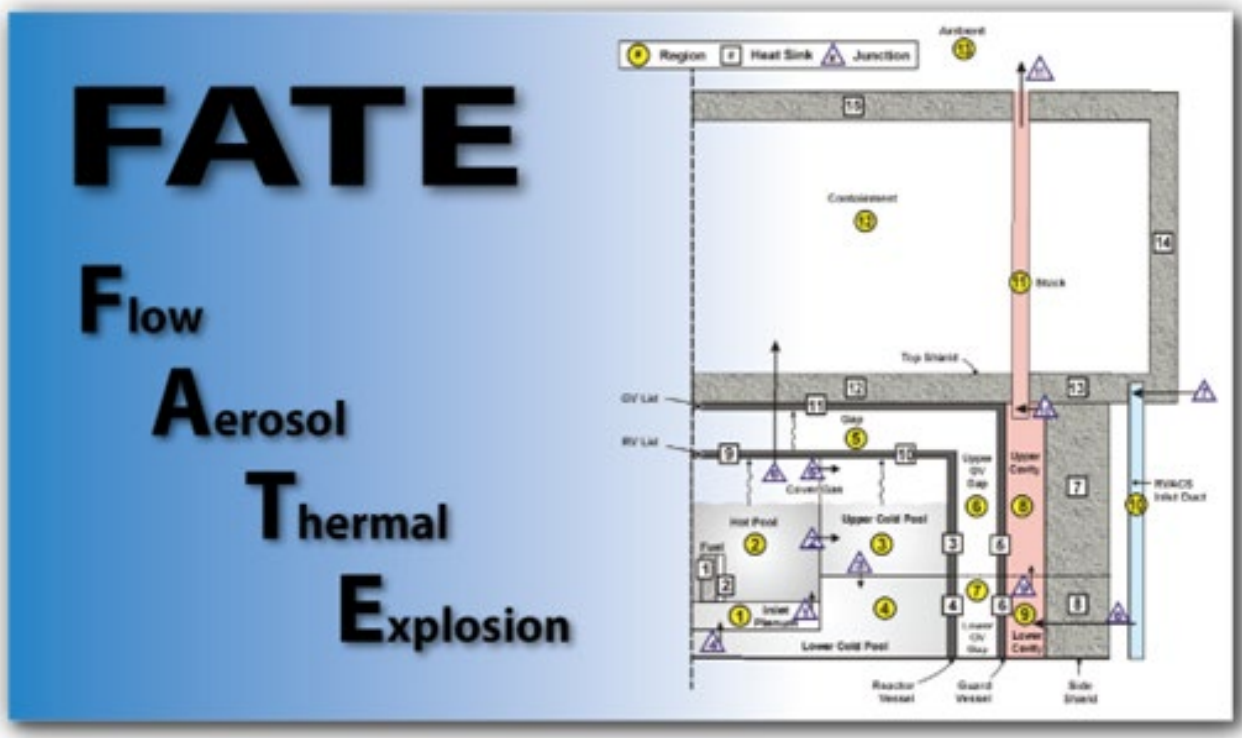
https://www.fjspecialty.com/

ADVANCED NUCLEAR | SUPPLIER

FAUSKE & ASSOCIATES, LLC

ADVANCED NUCLEAR | SUPPLIER

FAI specializes in modeling and analyzing both power and non-power nuclear facilities, including light water and liquid metal cooled reactors (LMRs), spent fuel, legacy waste processing, and storage facilities. FAI developed FATE, a facility and process modeling code originally created to support design and safety analyses of spent fuel, tank waste, vitrification, and special materials at DOE's Hanford site. Recently, under a GAIN voucher, FATE was coupled with a LMR accident analysis code to provide mechanistic source term analysis capability for licensing purposes.



Location: Burr Ridge, IL
Founded: 1980
Principal/CEO: John Fasnacht
Major Customers: Westinghouse, Kairos, Sellafield, Hanford, Korea Atomic Research Institute (KAERI)
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jim Burelbach | burelbach@fauske.com

https://www.fauske.com/

FISHER CONTROLS

Fisher valve and instrument technologies are born from Emerson's passion to increase your process safety and efficiency, by defining the industry with more than 140 years of trusted innovations and forging the future of flow control solutions. We know the consequences of process failure are great, that's why we have an unwavering commitment to standards and processes that ensure innovative and reliable product designs. Many years from now, as the Fisher™ brand is put onto products, users will continue to know it stands for integrity.

Location: Marshalltown, IA
https://www.emerson.com/en-us/automation/fisher
Founded: 1880
Principal/CEO: Kevin G. Meyer, Principal | Lal Karsanbhai, CEO
Major Customers: All sanctioned nuclear utilities across the globe
Federal Engagement: NRC
Preferred Point of Contact: Michael Hagen | michael.hagen@emerson.com | 641-754-3355

FISONIC ENERGY SOLUTIONS
POWER SYSTEMS DIVISION

Fisonic Energy Solutions designs pumping systems for power plants that require only heat to operate (no electricity) and use waste heat as a power source where possible.

Location: Waltham, MA
Founded: 2016
Principal/CEO: Ed Pheil, CTO
Major Customers: Non-disclosed
Federal Engagement: Other
Preferred Point of Contact: Ed Pheil | ed.pheil@fisonic.us | 212-732-3777

https://www.fisonic.us/

FLUID COMPONENTS INTERNATIONAL, LLC

ADVANCED NUCLEAR | SUPPLIER

Since 1978, FCI has designed and produced level, flow and temperature instruments that improve plant performance, protect equipment and maintain vital processes. Our unique expertise in the nuclear power industry delivers valuable time and cost savings during both construction and operational phases.

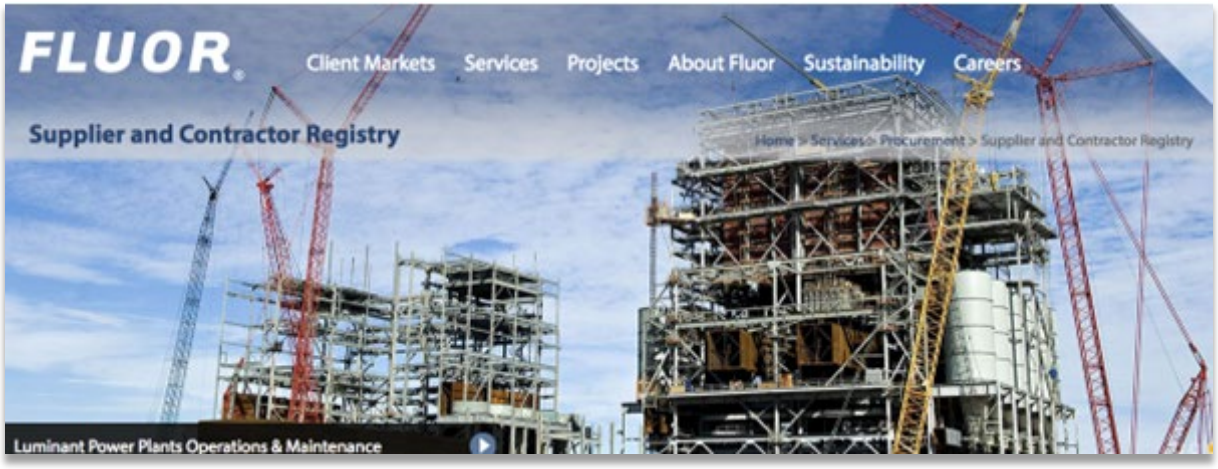
FCI delivers products that meet nuclear industry requirements from HVAC and balance of plant equipment, to radwaste systems, to inside containment harsh environment flow and level applications. Products stand ready for harsh environment and severe accident conditions and are fully qualified per IEEE323, IEEE344, IEC60780, and RCC-E.

FCI has analog and digital level and flow instrumentation that match the performance, reliability, complexity, and cost that the applications require. FCI Quality Assurance meets 10CFRAppendix B and complies with 10CFRPart21.

Location: San Marcos, CA ***https://www.fluidcomponents.com/products/nuclear-products***
Founded: 1964
Principal/CEO: Randy Brown
Major Customers: Westinghouse, Bechtel, Black and Veatch, Fluor, Framatome, Korea Hydro Electric Power Company, all major US Nuclear Power Operators
Federal Engagement: Other
Preferred Point of Contact: Nathan Obermiller | nuclear@fluidcomponents.com | 760-736-6233

FLUOR

Fluor is one of the world's largest publicly-traded engineering, procurement, fabrication, construction (EPFC) and maintenance companies, offering integrated solutions for clients' projects. For the past 70 years, Fluor has executed some of the most complex and challenging projects in the nuclear industry.

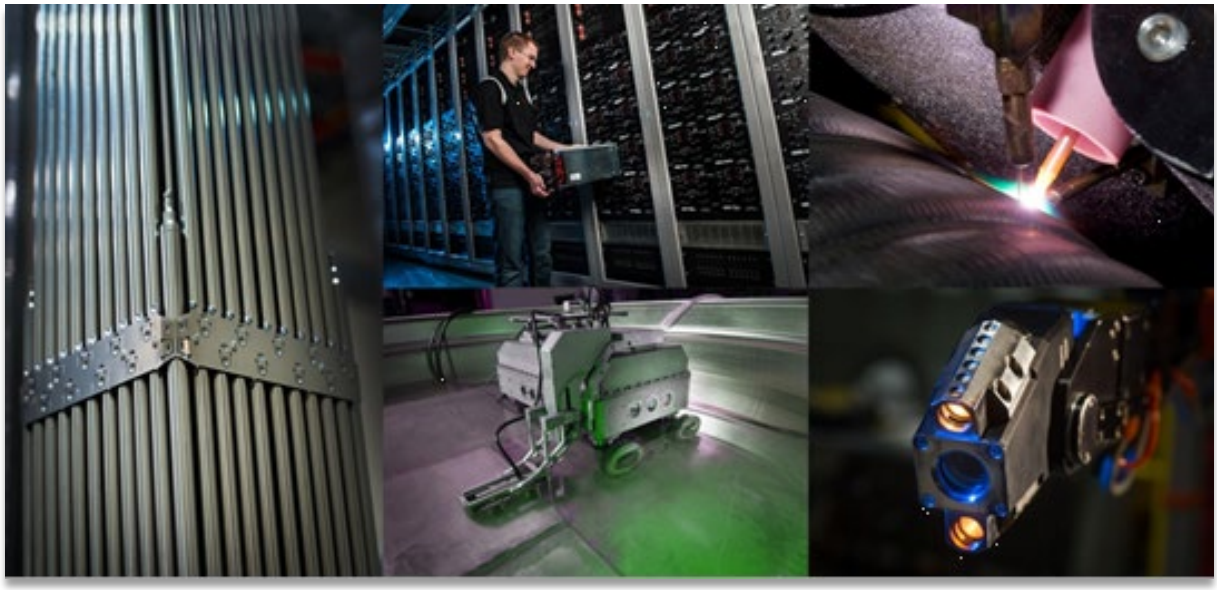


Location: Global
Founded: 1912
Principal/CEO: Jim Breuer
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, Other
Preferred Point of Contact: Kathleen Posteraro | kathleen.posteraro@fluorgov.com | 412-901-0558

https://www.fluor.com/

FRAMATOME

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services. Framatome is innovating to design the reactors of tomorrow. Our activities include reactor design, systems engineering, SMR fuel development, and industry counsel to help progress licensing and commercialization of advanced reactors in the United States.



Location: Nationwide
Founded: 1989
Principal/CEO: Gary Mignogna
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Darryl Gordon | darryl.gordon@framatome.com | 434-832-5199

https://www.framatome.com/en

GEI CONSULTANTS, INC.

ADVANCED NUCLEAR | SUPPLIER

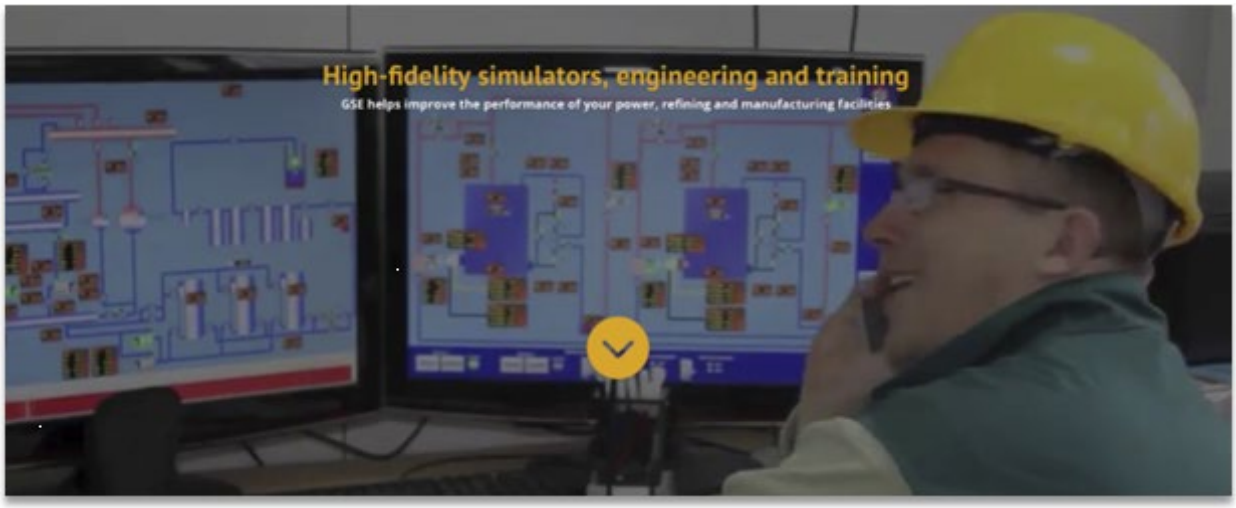
Our multi-disciplined team of engineers and scientists deliver integrated geotechnical, environmental, water resources, and ecological engineering solutions to diverse clientele nationwide. GEI recognizes the need to provide safe, clean, secure, base load electric power to influence our environment and has made a commitment to provide resources to support this need. GEI provides services with a focus on client success by integrating experienced project managers into our clients' team. Our services for nuclear facilities include Site Characterization/Selection; Seismic Stability and Liquefaction Analysis; Foundation Investigation; Design for Static and Seismic Loading; Vibration Analysis; Excavation Support; Geohydrologic and Hydrologic; Licensing Support; Embankment Design and Rehabilitation; Preparation of Plans and Specifications; Field Instrumentation Installation and Monitoring; Construction Observation and Consultation; Environmental and Ecological Services; and Decommissioning. GEI has had a Nuclear Quality Assurance Manual since 1972, and we provide all our services under a client-audited Quality Assurance Program (QAP) that meets the requirements of 10 CFR PART 50 Appendix B, ASME NQA-1-1994 and ANSI N45.2- 1977. We have firmly established a reputation amongst the industry for achieving excellent results, inspired problem-solving, and outstanding client satisfaction.

Location: Woburn, MA
Founded: 1970
Principal/CEO: Scott Wallington
Major Customers: Holtec International, TVA, Entergy, Exelon, Bechtel, and Orano
Federal Engagement: DOE, NRC, USACE, EPA, DOJ, TVA
Preferred Point of Contact: Chad R. Conti | cconti@geiconsultants.com
Leslie A. Lombardo | llombardo@geiconsultants.com

https://www.geiconsultants.com/

GSE PERFORMANCE SOLUTIONS, INC.

GSE is the world leader in simulation systems and solutions for the nuclear power industry. GSE's technology allows the end user to conduct engineering and design studies, conduct "what if" analyses and train personnel to exacting standards. GSE's technology is critical for customers to improve load factors, reduce operational risk and lower operating costs.



Location: Sykesville, MD
Founded: 1994
Principal/CEO: Kyle Loudermilk
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Jay Umholtz | jay.umholtz@gses.com

https://www.gses.com/

GUTOR ELECTRONIC LLC

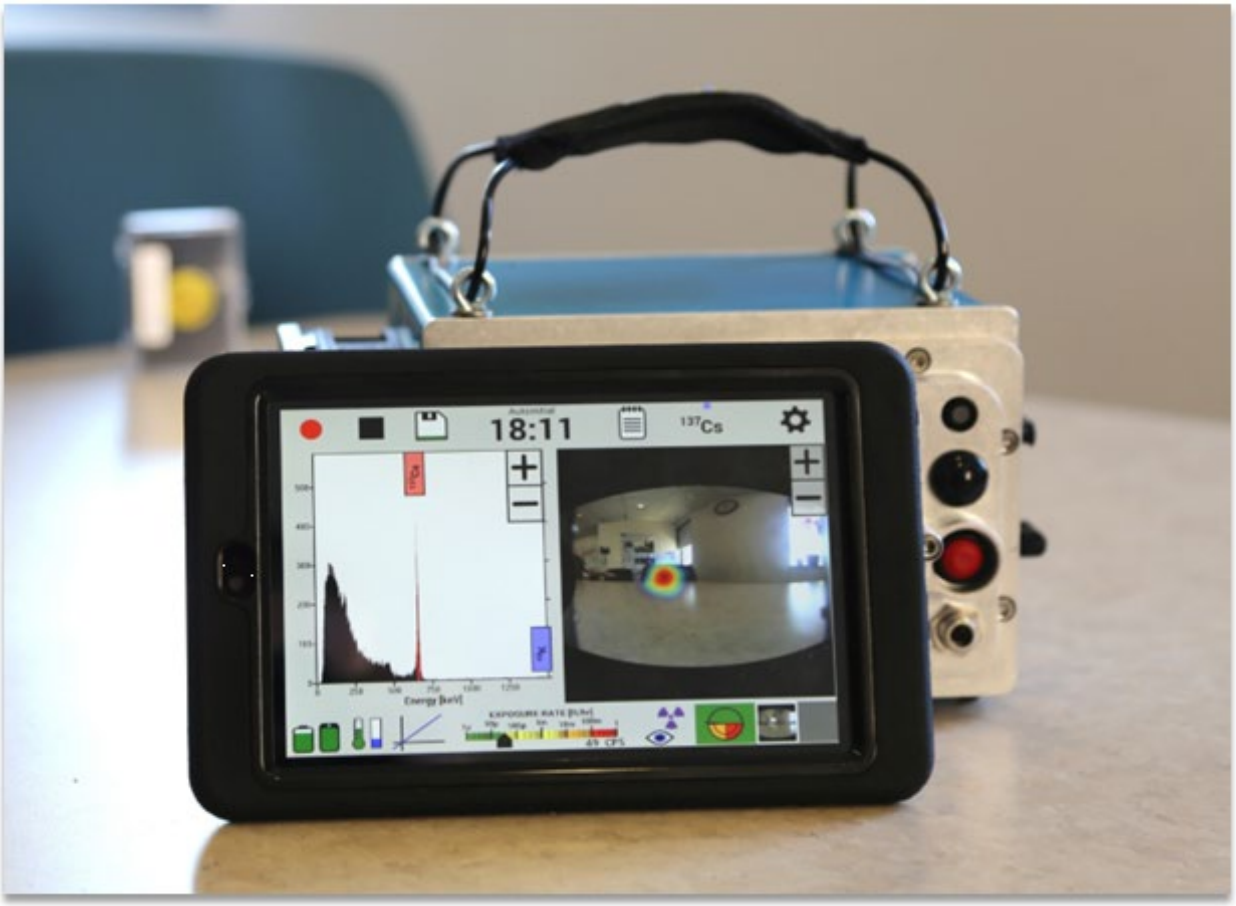
Gutor Electronic LLC is the low-cost, high-quality supplier of Environmentally Qualified, Safety-Related emergency and back-up electrical power; to include Battery Chargers, Inverters, and UPS systems.

Location: Houston, TX
Founded: 1946
Principal/CEO: Finn Jorgensen
Major Customers: Bruce Power, TVA, Xcel Energy, Entergy, Constellation, INL, Hanford, Duke Energy, Southern Nuclear, Dominion
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Mike May | mike.may@gutor.com | 865-230-3582

https://www.gutor.com

H3D, INC.

H3D offers the world's highest-performance imaging spectrometers. Quickly identifying and localizing gamma-ray sources with a single measurement, H3D is revolutionizing how measurements are performed. H3D detectors are used in over half of U.S. nuclear power plants.



Location: Ann Arbor, MI
Founded: Non-disclosed
Principal/CEO: Willy Kaye
Major Customers: Non-disclosed
Federal Engagement: DOE
Preferred Point of Contact: Andy Boucher | andy@h3dgamma.com | 734-661-6416

https://www.h3dgamma.com/

HANSELL TIERNEY, INC.

ADVANCED NUCLEAR | SUPPLIER

HansellTierney

Hansell Tierney, Inc. (certified women-owned business) is a full-service recruiting and staffing firm with a specialty in staffing both contractors/consultants and direct-hire staff for key players in the nuclear industry. We are currently supporting the growth and development of reactor projects that are part of the Advanced Reactor Demonstration Program (ARDP) as well as Network for Fusion Energy (INFUSE) program.

Hansell Tierney has developed a national candidate pipeline of specialized engineering and project talent specifically in the nuclear field. We understand the complex and novel nature of reactor design and development, and can successfully source, attract, and place the nation's top talent.

certified WBENC WOMEN'S BUSINESS ENTERPRISE

Examples of roles that we have placed are the following:

- Document Control Specialist
- Maintenance and Technical Training Instructor
- Training Coordinator
- Nuclear Operations Procedure Writer
- Buyer
- Design Control Process Engineer
- Accounts Payable Specialist
- Requirements Management Engineer
- Physical Security Systems Architect
- Instrumentation and Control System Design Engineer
- Cyber Security Systems Architect
- Plant Integration Engineer - Plant Layout
- Principal Seismic Probabilistic Risk Assessment (PSPR) Engineer
- Software Quality Assurance Engineer
- Process Integration Engineer
- Mechanical System Design Engineer
- System Transients Analysis Engineer
- Project Coordinator
- Verification and Validation (V&V) Engineer
- Training Building and Simulator Project Manager
- Senior Fuel Handling System Design Engineer
- Senior Fuel Handling Mechatronics Engineer
- DevOps Engineer
- Core Mechanical Analysis and Methods Engineer
- Procurement Project Coordinator
- Nuclear Licensing Engineer
- Senior Administrative Assistant
- Project Configuration Manager
- Administrative Assistant
- Helpdesk Technician
- Reactor Core and Component System Design Engineer
- Structural Analysis Engineer, Reactor
- System Design Engineer, Fluid Systems
- System Design Engineer, Sodium Processing System
- Instrumentation and Controls Engineer
- System Transients Methodology Engineer
- Nuclear Methods Software Engineer
- Plant Analysis Integration Engineer - Safety Analysis, PRA
- Senior Fuel Handling Test Design Engineer
- Operations Training Instructor
- Sr. Project Scheduler
- Plant Integration Systems Engineer
- Structural Analysis Engineer, Reactor
- Stress Analysis Engineer, Fuel Handling
- Engineering Coordinator
- Mechanical Codes and Methods Engineer
- Senior Fuel Handling Design Engineer- Dry Storage
- Senior Integrated Plant and Structures Engineer – Seismic Integration
- Sr. Mechanical Design Engineer
- Electrical Engineer
- Sr. Integrated Plant & Structures Engineer, Seismic Integration
- Senior Core Mechanical Structural Analyst
- Plant Integration Radiological Engineer
- Corporate Facilities Assistant
- Business Intelligence Analyst
- Recruiting Coordinator
- Recruiter
- Electrical System Design Engineer
- Financial Analyst
- Engineering Project Coordinator
- Contract Specialist
- System Integration Engineer
- Network Engineer
- Senior Software Engineer

Location: Seattle, WA
Founded: 2001
Principal/CEO: Jill Hansell McCune | Carolyn Tierney
Major Customers: Non-disclosed
Federal Engagement: DOE
Preferred Point of Contact: David Yount | dyount@hanselltierney.com | 206-377-9840

https://hanselltierney.com/

The HARTFORD STEAM BOILER INSPECTION and INSURANCE COMPANY

HSB offers a wide range of inspection services for nuclear components and nuclear power plants. We are the world's largest Authorized Inspection Agency accredited by the American Society of Mechanical Engineers (ASME). HSB is widely recognized as an industry leader and pacesetter for ASME Authorized Inspection Agencies.

We help clients around the world anticipate the impact of ASME and National Board Inspection Code requirements on their operations. Our experienced inspection professionals will help you identify and eliminate flaws and defects that increase your liability and operating costs while helping you maintain the highest levels of pressure equipment integrity. We also provide the most extensive inspection coverage in the United States and many other countries around the world.

HSB can help organizations attain accredited certification for their Management System in ISO 9001 Quality Management System, ISO 19443 Quality Management System requirements for organizations in the nuclear energy sector supply chain, ISO 14001 Environmental Management System, and ISO 45001 Occupational Health and Safety Management System.

Services Provided:·

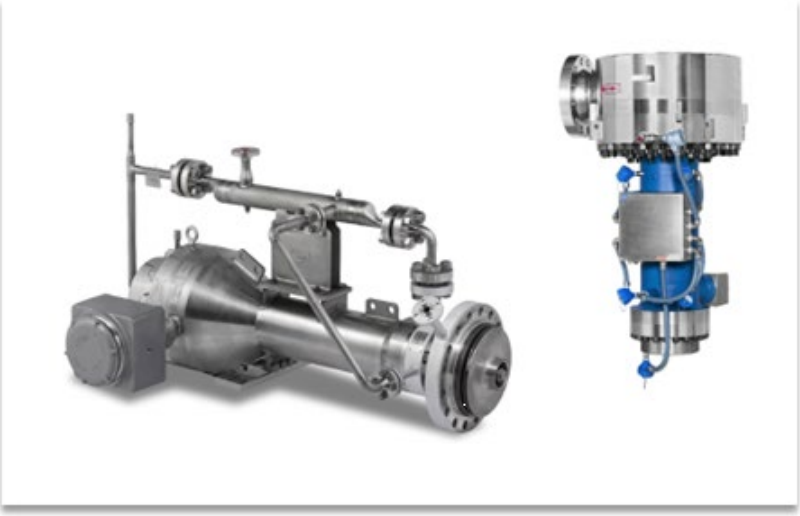
- Authorized Nuclear Inspection Services
- Authorized Nuclear In-service Inspection Services
- Spent Fuel Services (Inspection, surveillance and auditing services)
- Third Party Inspection Services
- ISO Services: ISO 9001, ISO 19443, ISO 14001, & ISO 45001
- Nuclear Quality Assurance Services
- Technical Training for pressure equipment

Location: Hartford, CT
Founded: 1866
Principal/CEO: Greg Barats
Major Customers: ASME Nuclear & Non-Nuclear Certificate Holders
Federal Engagement: GAIN, NRC, ASME
Preferred Point of Contact: Michael Fitzgerald | michael_fitzgerald@hsb.com | 612-568-0786

https://www.munichre.com/hsb/en/services/engineering/global-inspection.null.html

HAYWARD TYLER, INC.

Design, engineer and manufacture of pumps, motors, vessels, and other process equipment in accordance with ASME Codes and Standards. This includes Section III, Div. 1 and Div. 5. Hayward Tyler combines decades of nuclear pump and vessel operating experience with trained engineers using state-of-the-art computer aided design tools. These tools — including Computational Fluid Dynamics (CFD), rotor dynamics, and Finite Element Analysis (FEA) — enable us to engineer safe and reliable pump, motor, and vessel solutions for advancing nuclear energy technology. Whether your project requires limited scope engineering efforts, or clean sheet design and build of novel pump, motor, and vessel technology, Hayward Tyler has the in-house engineering, manufacturing and test to deliver on your unique challenges.



Location: Colchester, VT
Founded: 1970
Principal/CEO: Drew Van Norman
Major Customers: Southern Company, Dominion Energy, Constellation Energy, Korea Hydro & Nuclear Power, TerraPower, Idaho National Labor, Bechtel Marine Propulsion, ITER, Duke Energy
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Jeffrey Belotti, Sales Director | jeffrey.belotti@haywardtyler.com
Office: 802-655-4444 (x)141 | Mobile 201-446-9757

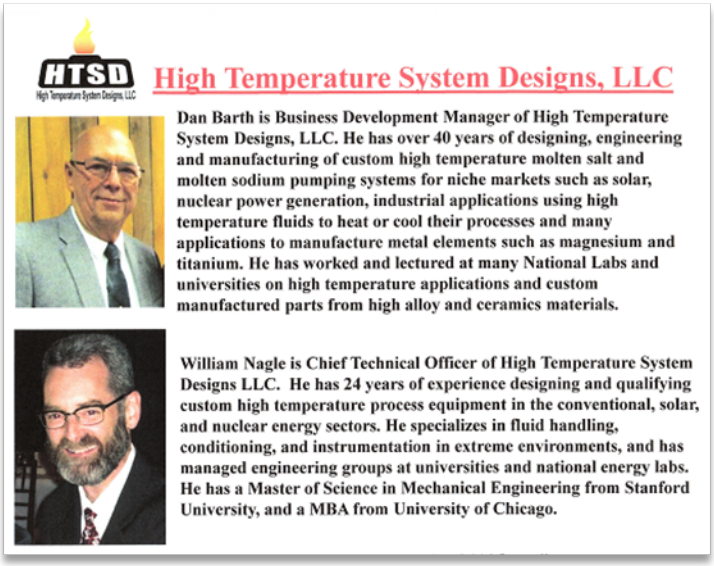
https://www.haywardtyler.com/

HIGH TEMPERATURE SYSTEM DESIGNS, LLC

ADVANCED NUCLEAR | SUPPLIER

High Temperature Systems Designs (HTSD) are an Engineering and Design company with over Seventy years of combined experience. Our team is made up of Daniel Barth, Business Development Manager/Owner, William Nagle, Chief Technical Officer and Danielle Barth, Research Analyst.

HTSD developed and manufactured specialized pumping systems for high temperature and hazardous material applications. Our understanding of designing and manufacturing of such critical equipment comes from working for and with such companies as Rheinhutte Pumps, Nagle Pumps, Friatec Valves, Ensival-Moret Pumps, Sandia National Labs, Rocketdyne, Nexant Bechtel, Oakridge National Labs and many other research facilities and Universities.



High Temperature System Designs, LLC

Dan Barth is Business Development Manager of High Temperature System Designs, LLC. He has over 40 years of designing, engineering and manufacturing of custom high temperature molten salt and molten sodium pumping systems for niche markets such as solar, nuclear power generation, industrial applications using high temperature fluids to heat or cool their processes and many applications to manufacture metal elements such as magnesium and titanium. He has worked and lectured at many National Labs and universities on high temperature applications and custom manufactured parts from high alloy and ceramics materials.

William Nagle is Chief Technical Officer of High Temperature System Designs LLC. He has 24 years of experience designing and qualifying custom high temperature process equipment in the conventional, solar, and nuclear energy sectors. He specializes in fluid handling, conditioning, and instrumentation in extreme environments, and has managed engineering groups at universities and national energy labs. He has a Master of Science in Mechanical Engineering from Stanford University, and a MBA from University of Chicago.

HTSD designed, constructed and commissioned systems at Sandia National Labs, Shell Global Solutions research Facility in Houston, TX, Plataforma Solar de Almera in Spain, ENEA in Italy and many labs scales systems at our universities.

Location: St. John, IN
Founded: 2015
Principal/CEO: Daniel Barth
Major Customers: Sandia National Labs, Oak Ridge National Labs, National Renewable Energy Lab, Argonne National Labs, Shell Oil. TerraPower, ThorCon, Flibe Energy, Hayward Tyler Inc., Powdermet, Nagle Pumps Inc., Rheinhutte Pumps
Federal Engagement: DOE, ARPA-E
Preferred Point of Contact: Daniel Barth | danbarth001@gmail.com |
Direct 219-365-7669, Cell 727-776--7952

http://www.hightemperaturesystemdesigns.com/

HOLTEC INTERNATIONAL

Holtec's SMR-160 is a robust small modular reactor that delivers 160 MW net electric in a small footprint. SMR-160 is based on pressurized water reactor technology and uses low enriched uranium fuel to provide reliable, affordable and carbon-free energy. The SMR-160 is "walk-away safe," requiring no operator actions during natural disasters, man-made threats, or any of the conditions required to be considered by U.S. regulations. It is the ideal solution for sustaining economic growth worldwide. Since SMR-160 can integrate readily to both established electrical grids or as an independent distributed power source, it is well adapted for both undeveloped and developed countries. SMR160 is truly modular. The majority of the plant's equipment and structures are factory-fabricated and can be delivered to each site in segments. An SMR-160-based site can easily be expanded with additional units to meet current and future demand. Please visit www.smrllc.com for more information.

Location: Camden, NJ *https://holtecinternational.com/products-and-services/smr/*
Founded: 1986
Principal/CEO: Dr. Krishna P. Singh
Major Customers: Worldwide
Federal Engagement: DOE, NRC
Preferred Point of Contact: Myron Kaczmarsky / m.kaczmarsky@holtec.com / 856-797-0900 x 3657

HUKARIASCENDENT, INC.

HukariAscendent, Inc. is a certified Woman-Owned Small Business providing specialized engineering, technical, and professional support services to government and commercial nuclear power, science, and technology industries since 1999. With more than 150 highly skilled personnel deployed across over 15 DOE facilities and commercial nuclear sites, we deliver critical technical services that advance nuclear energy and national security missions.

Our company has earned distinguished performance awards at Los Alamos National Laboratory, the Idaho Cleanup Project, Hanford, and the Savannah River Site. Our core capabilities include nuclear safety analysis, environmental compliance, fire protection engineering, regulatory support services, and staff augmentation for both federal and commercial nuclear facilities.

As the nuclear industry evolves with the development and deployment of advanced reactors, HukariAscendent remains committed to supporting developers, operators, and national laboratories with experienced technical personnel and high-quality engineering services.

Core Technical Services:

- Nuclear Safety Analysis & Authorization Basis
- Environmental Compliance & Restoration
- Fire Protection Engineering (Nuclear Facilities)
- Radiological Characterization & Monitoring
- Atmospheric Dispersion & Consequence Modeling
- MCNP Modeling & Radiation Transport Analysis
- Licensing & Regulatory Support Services
- Nuclear Quality Assurance (NQA-1)
- Staff Augmentation for Nuclear Facilities
- Software Quality Assurance
- Decommissioning & Remediation Support Facility Experience
- DOE National Laboratories & Production Facilities
- Commercial Nuclear Power Plants (PWR/BWR)
- Advanced Reactor Development Projects
- Underground Nuclear Test Facilities
- MOX & Special Nuclear Materials Facilities
- Environmental Restoration Sites Regulatory & Standards Expertise
- 10 CFR Parts (20, 50, 70, 71, 830, etc.)
- DOE Orders (420.1, 440.1, 5480 series)
- NRC Regulatory Guides
- ASME NQA-1 Quality Standards
- NFPA Fire Protection Standards Personnel Qualifications
- Professional Engineers (PE)
- Certified Health Physicists (CHP)
- Fire Protection Engineers (FPE)
- DOE Q & L Clearances
- NRC Security Clearances
- Nuclear Safety Engineers
- Others

Location: Wheat Ridge, CO
Founded: 1999
Principal/CEO: Patrice McEahern
Major Customers: Savannah River Nuclear Solutions, LLC, Los Alamos National Laboratory (TRIAD & N3B), Idaho Cleanup Project (IEC)
Federal Engagement: DOE, NRC
Preferred Point of Contact: Jason Lawless | jasonl@hukari.com | 423-557-5578

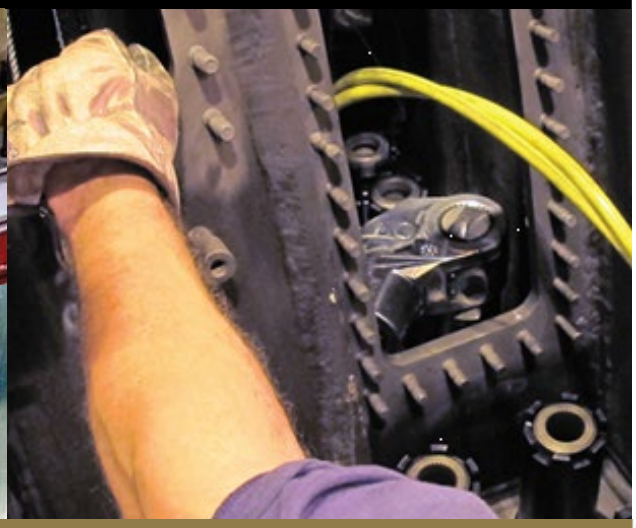
https://www.hukari.com/

HYTORC

HYTORC is an industry leader specializing in creating safer and more efficient solutions for the most demanding critical bolting applications. With over 50 years of experience, we are dedicated to creating and maintaining the highest quality bolting systems available.

HYTORC's innovative products feature:

- Hands-free and remote operation for worker safety
- Onboard documentation systems for job accountability
- Newest bolting method
- Increased bolt load accuracy for overall joint integrity
- ASME Section III Class 1 Components



• NO-COST ENGINEERING CONSULTATION •

Location: Mahwah, NJ
Founded: 1986
Principal/CEO: Eric Junkers
Major Customers: Non-Disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: Joel Siegler | info@hytorc.com | 1-800-FOR-HYTORC | 800-367-4986

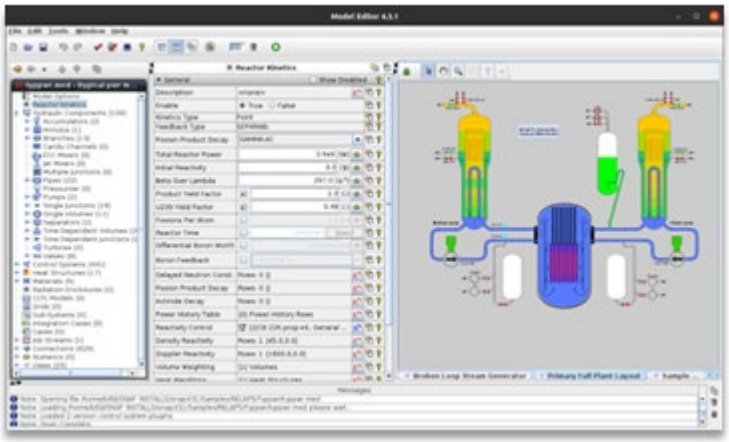
https://hytorc.com/

INFORMATION SYSTEMS LABORATORIES

Information Systems Laboratories, Inc. (ISL) is a small-business, employee-owned technology development corporation that provides comprehensive support to government and commercial customers. We are experts in nuclear reactor design, modeling & simulation, digital engineering, validation of nuclear power systems, development and execution of regulatory strategies, and license application preparation and review.

Typical nuclear analysis performed by ISL focuses on the following areas: thermal-hydraulics, fuel performance, point and 3D neutron kinetics, plant performance, hazards analysis, safety analysis (including operational transient analysis), training simulator benchmarking, control system studies, and radiological analysis.

ISL provides full software lifecycle development and maintenance for nuclear safety analysis codes, currently supporting the maintenance and development of computer software and analysis systems for the U.S. Nuclear Regulatory Commission (NRC) and U.S. Department of Energy (DOE), including RELAP5, RADTRAD, TRACE, and PARCS.



ISL's Symbolic Nuclear Analysis Package (SNAP™) is a suite of integrated applications which facilitates building, editing, executing, and post-processing simulation models for engineering analysis.

https://www.islinc.com

Location: San Diego, CA
Founded: 1982
Principal/CEO: Dr. Joseph Guerci, Ph.D.
Major Customers: U.S. NRC, U.S. DOE
Federal Engagement: DOE. NRC, NASDA, DARPA, U.S. DOT, Other
Preferred Point of Contact: Colleen Armoruso | camoruso@islinc.com | 703-448-1116

JENSEN HUGHES, INC.

ADVANCED NUCLEAR | SUPPLIER

JENSEN HUGHES

Jensen Hughes is a global team of engineers, scientists, and consultants dedicated to making the world safe, secure, and resilient for the past 80 years. In the nuclear sector, Jensen Hughes is the world's leading technical risk consulting engineering firm with over 40 years of experience pioneering risk-informed, performance-based engineering. The company played a foundational role in probabilistic risk assessment (PRA), conducting one of the first comprehensive nuclear power plant PRAs in the early 1970s. Today, we combine regulatory rigor with technical realism—challenging unnecessary conservatism and providing honest assessments of timelines, costs, and risks without bias.

Jensen Hughes offers comprehensive services across the nuclear lifecycle, including:

- Probabilistic Risk Assessment and risk-informed applications
- Licensing and regulatory support for operating plants and new reactor designs
- Owner's Engineer services for new nuclear builds and major capital projects
- Fire protection engineering, physical and cyber security assessments
- Technology assessment and site selection for advanced reactors and SMRs
- Power uprates, license renewals, plant restart specialty engineering support
- AI-enabled tools for regulatory compliance and RIPB efficiency

Our nuclear experience spans operating fleet optimization and new nuclear development (SMRs, advanced reactors). We support facility owner/operators, reactor vendors, hyperscalers, industrial offtakers, and government agencies to improve safety and efficiency throughout the nuclear facility lifecycle—from concept through decommissioning.

Jensen Hughes has a global presence with more than 90 offices and 1,900 employees worldwide, serving local, regional, and multinational clients effectively. As an independent engineering firm, we provide unbiased technical advice tailored to each client's unique needs, helping them navigate nuclear complexity with confidence.

Location: Columbia, MD
Founded: 1980
Principal/CEO: Raj Arora
Major Customers: U.S. operating nuclear utilities, new reactor developers (SMR and advanced reactor OEMs), offtakers pursuing nuclear energy, U.S. Department of State, global utilities and governments in Europe, Asia, Middle East, and South America.
Federal Engagement: DOE, DoS
Preferred Point of Contact: Hunter Young | hyoung@jensenhughes.com | 623-738-3873

https://www.jensenhughes.com/

JOSEPH OAT CORPORATION

Joseph Oat is a world-renowned OEM designer and manufacturer of fabricated ASME Section VIII and ASME Section III / NQA-1 nuclear safety-related heat exchangers, pressure vessels, tanks, canisters/casks, and other products for the Nuclear Power and Radioactive Waste Processing Industries.

Joseph Oat's range of products is quite extensive, and our successful nuclear experience is unmatched in the industry. Joseph Oat excels in the supply critical heat exchangers such as regenerative & non-regenerative, residual heat removal (RHR), spent fuel pool coolers, emergency diesel generator (EDG) coolers, lube oil coolers, containment spray, letdown, SG blowdown, and large component cooling water (CCW) heat exchangers. Other product offerings include condensate tanks, air receiver tanks, accumulator vessels, liquid control tanks, surge tanks, containment air coolers, pulsation dampeners, suction stabilizers, oil tanks, fuel tanks, strainers, flow elements - orifice plate & venturi type, flow meters, structural weldments, spent fuel/rad-waste canisters/casks, and other specialty items to nuclear power utilities/plants, NSSS designers, nuclear A&E/EPC firms, the DOE national laboratories/repositories, and DOD weapons plants.

Location: Camden, NJ
Founded: January 1788
Principal/CEO: Ron Kaplan
Major Customers: DOE (National Laboratories, Repositories, Universities, etc.), GE-Hitachi, Orano, US Nuclear Power Utilities, Westinghouse
Federal Engagement: DOE, GAIN, NRC, Other, DOD
Preferred Point of Contact: John McDonald | j.mcdonald@josephoat.com | 856-371-0009

https://www.josephoat.com/

KINECTRICS

Kinectrics is the category leader in providing life cycle management services for the electricity industry. From initial design and type testing to operational deployment and maintenance services, Kinectrics collaborates closely with customers to ensure that utility assets perform safely, reliably throughout their entire life cycle.

SERVICES SUPPORTING ALL STAGES OF THE NUCLEAR POWER PLANT LIFE CYCLE

Design Engineering and Sites—Kinectrics is a Tier 1 supplier of engineering and on-site services providing consistent, cost-effective, and innovative complete solutions to clients globally.

Nuclear Safety and Licensing—Kinectrics is a market leader in North America in providing safety and licensing support to nuclear utilities.

Nuclear Equipment Solutions—Kinectrics is one of the most diverse suppliers in North America of Safety-Related parts and can provide the following services to assist utilities with their unique parts, obsolescence and refurbishment challenges.

Materials and Major Components—Offering industry-renowned capabilities in life cycle management of major components.

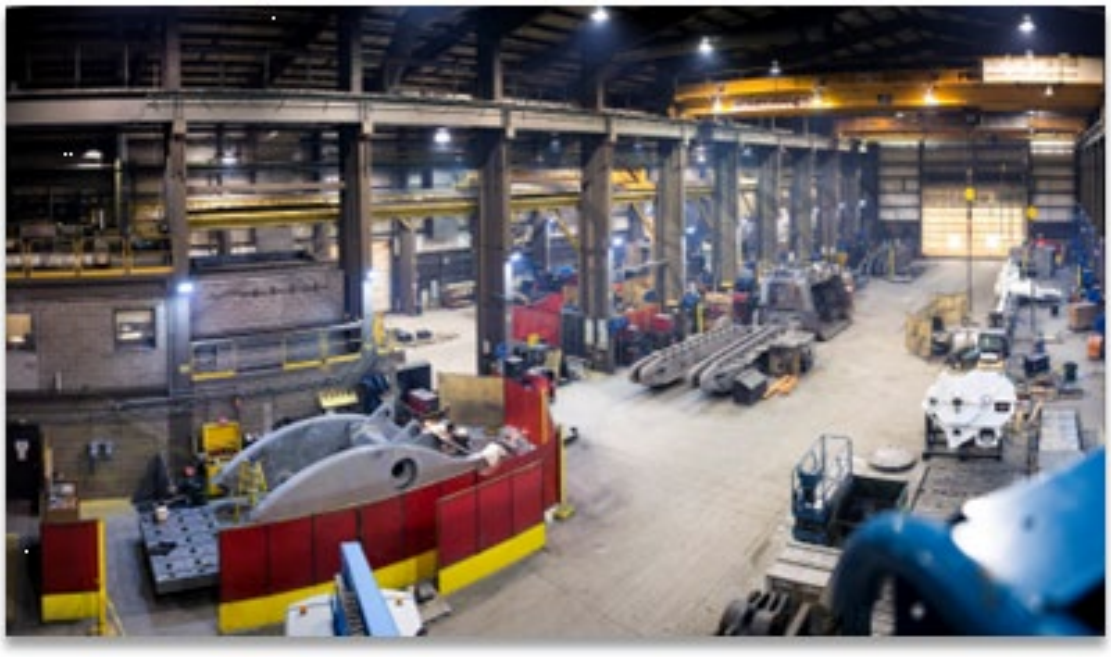
Radioactive Material and Chemistry Services—A combination of CNSC licensed facilities and an ISO 17025 accredited laboratory that provides expert Analytical Chemistry, Nuclear Waste Management and Environmental services.

Inspection and Maintenance Systems—Kinectrics provides the full suite of services for the design, prototyping, development, testing, deployment and maintenance of inspection and non-destructive evaluation (NDE) systems and tooling.

Location: Etobicoke, Ontario, Canada
https://www.kinectrics.com/
Founded: 2000
Principal/CEO: David Harris
Major Customers: Westinghouse, Emerson, Duke Energy, Bruce Power, Ontario Power Generation, Entergy, Wolf Creek, Callaway, TVA
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Nisa Halsey | nisa.halsey@kinectrics.com
Office phone: 416-207-6000 (x) 6315 | Mobile: 443-350-1556
David Marttila | david.marttila@kinectrics.com |
Office phone: 416-207-6000 (x) 5891 | Mobile: 416-400-6894

L & H INDUSTRIAL

Founded in 1964 and headquartered in Gillette, Wyoming, L&H Industrial is a globally trusted engineering and manufacturing company with more than 60 years of experience supporting critical industries including mining, energy, defense, and advanced nuclear. L&H specializes in large-scale machining, complex fabrication, and engineered solutions for critical equipment and components. With decades of experience supporting high-performance equipment, L&H delivers precision manufacturing capabilities that meet the quality, reliability, and performance demands of nuclear and advanced energy applications. L&H integrates engineering, manufacturing, field service, and digital systems to deliver rapid problem-solving and custom solutions for complex mechanical challenges.



Location: Gillette, WY
Founded: 1964
Principal/CEO: Mike Wandler
Major Customers: NASA (Kennedy Space Center, Marshall Space Flight Center, Ames Research Center), Blue Origin, Jacobs Engineering, QinetiQ
Federal Engagement: DOE
Preferred Point of Contact: Gage Wandler | gwandler@lnh.net | 480-889-2830
Gary Collins | grcollins@lnh.net | .307-680-2179

https://www.lnh.net/

LIGHTBRIDGE CORPORATION

Lightbridge develops next generation fuel technology.

Location: Reston, VA
Founded: 2006
Principal/CEO: Seth Grae
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Seth Grae | 571-730-1200 | https://www.ltbridge.com/contact

https://www.ltbridge.com/

MAIDANA RESEARCH

MAIDANA RESEARCH
Engineering Design and Scientific Research

MAIDANA RESEARCH is a small business dedicated to engineering design and scientific research. Its main set of activities rely on computer aided design, engineering and manufacturing (CAD/CAE/CAM), basic and applied research in the engineering and physical sciences, and consulting in topics related to industries and advanced technologies deemed critical to national security and to long term economic development including, but not limited to, aerospace, satellites, nuclear technologies, defense-related industries, and advanced energy systems.

We provide specialized services in the research, design and development of liquid metal and molten salt electromagnetic pumps for nuclear, space and industrial applications including software development, rapid prototyping, advanced and hybrid manufacturing, test loops, instrumentation and control, and digital monitoring systems for active flow control and machine protection.

- Computer Aided Design (CAD)
- Computer Aided Engineering (CAE)
- Computer Aided Manufacturing (CAM)
- Rapid Prototyping
- Reverse Engineering
- Instrumentation and Control
- Modeling and Simulations
- Multi-Physics Analysis
- Computational Physics
- Software Engineering
- Digital Prototyping

Location: USA (ID) and Thailand
Founded: 2015
Principal/CEO: Dr. Carlos O. Maidana
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NASA, DOD, Other
Preferred Point of Contact: management@maidana-research.com

https://www.maidana-research.com/

MASTER-LEE ENGINEERED PRODUCTS, INC.

ADVANCED NUCLEAR | SUPPLIER

Master-Lee Engineered Products Incorporated (MLEP) serves the nuclear power industry with innovative, quality tooling and products designed with reliability, longevity, and personnel safety in mind. Our Engineering Team's experience in creating simple solutions for complex problems has been finely tuned over decades of operation and honed through thousands of specialized projects. We strongly emphasize teamwork throughout our organization and consistently welcome our customers onto our Team to work through challenges together, and to mold a long-lasting customer-vendor relationship.

Having provided tooling and services to the commercial nuclear power industry for over 35 years, we have attained a strong working knowledge and depth of experience in: reactor maintenance/assembly/disassembly, fuel handling tooling, underwater and/or radiological area lighting, remote tool operation, special lifting devices, and personnel work platforms. We have also created specialized tooling and equipment for the decommissioning of various commercial nuclear power plants as well as test reactor sites of the DOE. Whatever challenges your project brings you, Master-Lee Engineered Products, Inc. is well equipped to deliver you a timely and effective solution.

Location: Latrobe, PA
Founded: 1987
Principal/CEO: Thomas Tallarico
Major Customers: Duke Energy, Constellation, PG&E, Talen Energy, Energy Harbor, NPPD, Energy Northwest, TVA, Southern Nuclear, Entergy, Dominion Energy, Luminant, NextEra Energy, Framatome, Westinghouse
Federal Engagement: DOE
Preferred Point of Contact: Matt Batsa, VP of Engineering | batsa-ma@masterlee.com | 724-805-4964

https://www.masterlee.com

MATERION

Materion at a Glance:

A global high-tech solutions provider of performance alloys, precision coatings and advanced materials.

- Founded in 1931
- Publicly traded on NYSE since 1972 (MTRN)
- In excess of $1 billion in sales

Materion services customers in the aerospace, architectural glass, automotive, defense, energy, nuclear, precision optics, and semiconductor electronics markets.

Location: Mayfield Heights, OH
Founded: 1931
Principal/CEO: Jugal K. Vijayvargiya
Major Customers: Aerospace, Architectural Glass, Automotive Defense, Energy, Nuclear, Precision Optics, and Semiconductor Electronics Markets
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Chris Helwig | christopher.helwig@materion.com
Office: 414-212-0239 | Mobile: 414-708-873

https://www.materion.com/

MERIDIAN SERVICES GROUP

ADVANCED NUCLEAR | SUPPLIER

For over 20 years, Meridian (formerly High Bridge Associates and Work Management) has served various industries spanning power generation (nuclear, fossil, and renewables), federal government, T&D, petro-chemical, and Environmental Management. Meridian is an industry leader in SMR, AR, and LLWR planning, analysis, and advisement with expertise encompassing all phases of the project life cycle and beyond to operations and decommissioning, in the US and abroad.

For new nuclear power (NNP) plant facilities, Meridian has been part of owner/licensee/project teams to assist with ***screening technology options & life cycle economics*** for LLWR, SMR, & Advanced Reactor designs. It utilizes a comprehensive database of cost/schedule/risk historical information and financial modeling tools to assist customers with evaluating the 80-year life-cycle economic performance for licensing, EPC, operations/maintenance, and decommissioning. Meridian has performed strategic advisement and third-party independent reviews of cost, schedules, and risk assessment for various SMRs, ARs, and LWRs.

Meridian is committed to helping owners and contractors to learn from the past and apply these lessons and best practices for success in the future. The Nuclear Energy Institute (NEI) selected Meridian in 2019 to prepare NEI Report 20-08 published in April 2020 documenting strategic project management lessons learned and best practices for first-of-a-kind new nuclear plant construction. Our Meridian website provides links to PDF copies of each of the 32 public domain reference documents and case studies for 10 successful large FOAK projects cited in the NEI Report. In 2022/2023, NEI engaged Meridian to develop several implementation guides based on the 2019 NEI report to support the nuclear industry's needs for formal guidance.

Location: Greensboro, GA
Founded: 2021
Principal/CEO: Jim O'Connor, President | Ken Aupperle, SVP
Major Customers: TVA, Dominion, NuScale, Entergy, Southern, OPG, NEI
Federal Engagement: DOE, DOD, National Labs
Preferred Point of Contact: Elizabeth Snow | elizabeth.snow@meridian-sg.com | 423-468-4317

https://meridian-sg.com/

MERRICK & COMPANY

ADVANCED NUCLEAR | SUPPLIER

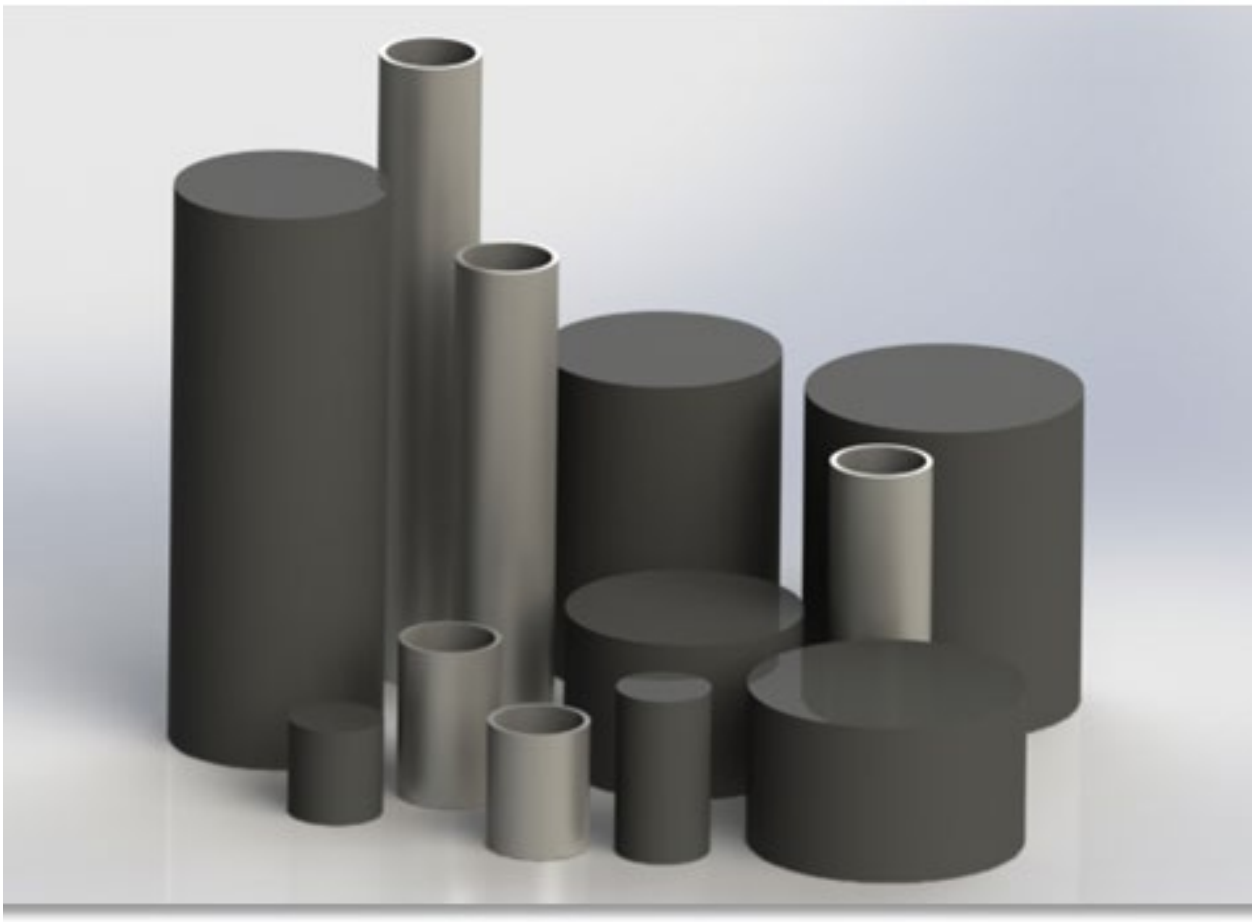
Merrick has provided nuclear engineering services since 1983. We custom design nuclear equipment, systems, and facilities. Hot cells, gloveboxes, custom enclosures, and in-cell equipment design represent our primary business in Merrick's Nuclear Services and Technology business unit. We design hot cells and remote handling equipment for fuel research, post irradiation examination, medical isotope production, nuclear weapons support facilities, neutron research facilities, and advanced science facilities requiring high-energy shielding. We understand how to design your facilities for functionality, operability, and maintainability. Whether enhancing capacity, increasing efficiency, modernizing technology, improving safety, or renovating facilities, our team of trusted experts provides the right solution, allowing our clients to realize the greatest value.

Location: Greenwood Village, CO
https://www.merrick.com/
Founded: 1955
Principal/CEO: Tammy Johnson
Major Customers: CNS - Y-12 & Pantex, SRNS - Savannah River, Triad National Security – LANL
Federal Engagement: DOE, ARPA-E, GAIN, NNSA
Preferred Point of Contact: Keith Michaud | keith.michaud@merrick.com | 865-685-5532 | 860-940-3475

MILLENNITEK LLC

MILLENNITEK LLC
AN ADVANCED MATERIALS MANUFACTURER

Millennitek manufactures neutron absorbers from high-temperature materials under our NQA-1 quality program. We also develop materials and have advanced manufacturing methods to accelerate time to market.



Location: Knoxville, TN
Founded: 2010
Principal/CEO: Steve Getley
Major Customers: Westinghouse, PNNL
Federal Engagement: NASA
Preferred Point of Contact: Steve Getley | steve.getley@millennitek.com | 865-771-2553

http://millennitek.com/

MP MACHINERY AND TESTING

MP Machinery & Testing, LLC (MPM) is a leading provider of test services for nuclear power & energy, steel & pipe, laboratory, aerospace and defense, transportation, electronics, and other industrial customers. With a long track record of unmatched expertise, MPM stands as one of a limited number of high activity hot cell facilities in the United States, giving the Company a unique advantage in delivering unparalleled solutions to our clients. In addition to testing services, MPM also manufactures testing products and provides calibration services.

MPM has extensive in-house experimental and computing capabilities. These resources are used to solve industry problems and to develop and advance existing testing machines. MPM's advanced technology and meticulous attention to detail provide customers with the highest quality products and services at a price which is significantly below that of competitors.

Location: State College, PA
Founded: 2009
Principal/CEO: Michael Manahan
Major Customers: Non-Disclosed
Federal Engagement: Idaho National Laboratory, Oak Ridge National Laboratory, Los Alamos National Laboratory
Preferred Point of Contact: Michael Manahan | mpmanahan@mpmachineryandtesting.com
814-234-8860 x-121

https://www.mpmachineryandtesting.com/

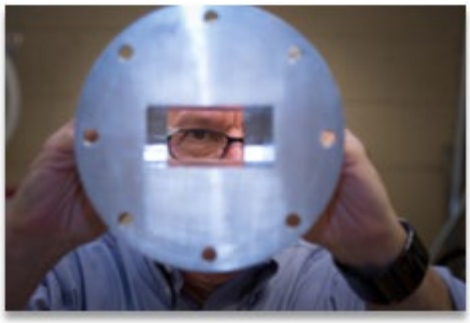
ADVANCED NUCLEAR | SUPPLIER

MS TECHNOLOGY, INC.

ADVANCED NUCLEAR | SUPPLIER

MS Technology, Inc. is an engineering and technology development small business headquartered in Oak Ridge, Tennessee that services the U.S. Department of Energy, U.S. Department of Defense, and private industry. We specialize in providing engineering and project support, Q-cleared engineers and technical professionals, and multiple Professional Engineers. We strive to solve our customers' most challenging problems by being a leader in design, development, and deployment of critical innovative technologies.

Our founders started MS Technology in 1994 by pursuing innovative metal melting technologies using microwave energy. We are now a world leader in design and delivery of microwave-driven metal melters and casting technology.



We leveraged our innovative development experience to evolve into experts in equipment and process design. Our portfolio includes design of uranium fuel fabrication processes, glovebox design and structural analyses, design documents for complex infrastructure projects, and air emission control systems. Our customers value our ASME NQA-1 quality program that has withstood audits by NNSA prime contractors. We used our experience to evolve into full facility design, including architectural, civil, structural, mechanical, electrical, chemical, nuclear, fire protection, and instrumentation and controls disciplines.

We didn't stop there. Good engineering in a digitally transformed world means Total Lifecycle Systems Engineering. This includes cradle-to-grave requirements identification, capture, establishment of requirement bases, verification, validation, and management for the life of the asset. We are experienced in lifecycle analysis processes to maintain the health of mission critical assets. We are adept at evaluating alternatives and failure modes and effects analyses (FMEA). We can help you tailor a requirements management plan, including DOORS implementation, to meet your needs.

We are ready to help you tackle your most challenging problems.

Location: Oak Ridge, TN
Founded: 1994
Principal/CEO: Peter Newby, President
Major Customers: NNSA, DOE, Centrus, TRISO-X
Federal Engagement: DOE, GAIN, NRC, NNSA
Preferred Point of Contact: Peter Newby | peter.newby@mstechnology.com | 865-483-0895

https://www.mstechnology.com/

NELCO WORLDWIDE

Nelco, based in Massachusetts, has been a global leader in custom radiation shielding solutions for over 90 years. We specialize in modular concrete blocks of varying densities for vault construction and offer a full range of shielding products — including vaults, door systems, borated polyethylene, and lead-based solutions such as cask pours, bricks, sheetrock, and plywood.

With projects completed in more than 45 countries, Nelco is your trusted partner for radiation shielding components and turnkey solutions worldwide.

Location: Burlington, MA
Founded: 1932
Principal/CEO: Rick LeBlanc
Major Customers: National Labs, Cancer centers, Nuclear Power Companies, Radiology and Nuclear Medicine, Defense and Aerospace Companies
Federal Engagement: DOE, ASTRO
Preferred Point of Contact: Jason Koshnitsky | jkosh@nelcoworldwide.com | 781-552-8135

https://www.nelcoworldwide.com/

NUCLEAR ENERGY CONSULTANTS, INC.

ADVANCED NUCLEAR | SUPPLIER

We are a consulting, engineering, regulatory, & technical support services firm helping clients like you lead the way in advanced & SMR design & development.

Our contributions have been instrumental in clients achieving their goals, including the first successful SMR design certification by the NRC & the first commercial contract to build a grid-scale SMR in North America.

We have an optimal mix of historical industry know-how, leading innovative services, & the flexibility to meet current for today's FOAK, scalable, streamlined designs. NEC's goal is providing the highest quality products & services to the nuclear industry while achieving total client & employee satisfaction through a philosophy of corporate & employee dedication to excellence.

Thank you for considering NEC. We look forward to working with you.

NEC is conveniently located in Rockville, Maryland near utility and nuclear regulatory agencies, industry corporate offices and Washington, D.C.

https://www.necenergy.com/

Location: Rockville, MD
Founded: 1983
Principal/CEO: William R. Mills
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Marlisa Willie, Project Resource Mgr. | mwillie@necenergy.com | 301-840-2964

NUCLEAR ROSE CONSULTING, LLC

Nuclear Regulatory Oversight, Safety & Environmental (Nuclear ROSE) Consulting, LLC

Rani Franovich, principal consultant and expert witness, is a former inspector, manager and leader at the US Nuclear Regulatory Commission. She applies 30+ years of experience with reactor safety, security, oversight and licensing (both safety and environmental reviews). Possessing a rare combination of technical knowledge, applied experience, critical thinking, exceptional communication and ethical leadership, she delivers top-notch consulting and highly credible expert witness services.

Consultant and Expert Witness

We offer services in a wide range of regulatory matters, including reactor oversite and licensing reviews. Our services are tailored to meet the unique needs of each client and tap a deep reservoir of expertise and relationships. We deliver high-quality results while maintaining the highest levels of integrity, efficiency, and accountability.

Public Speaker and Educator

We have applied experience with public outreach and media engagement, actively listening to stakeholder concerns, responding with factual information, candidly acknowledging very low risks associated with nuclear energy generation, debunking common mis-conceptions, and lecturing on ethics and leadership in government and nuclear power industry.

Location: Bethesda, MD
Founded: 2023
Principal/CEO: Rani Franovich
Major Customers: Nuclear Innovation Alliance, Radiant Industries, Enery Innovation Reform Project, Center for the National Interest
Federal Engagement: NRC, Congress
Preferred Point of Contact: Rani Franovich | rani@nuclearrosellc.com | 240-418-4164

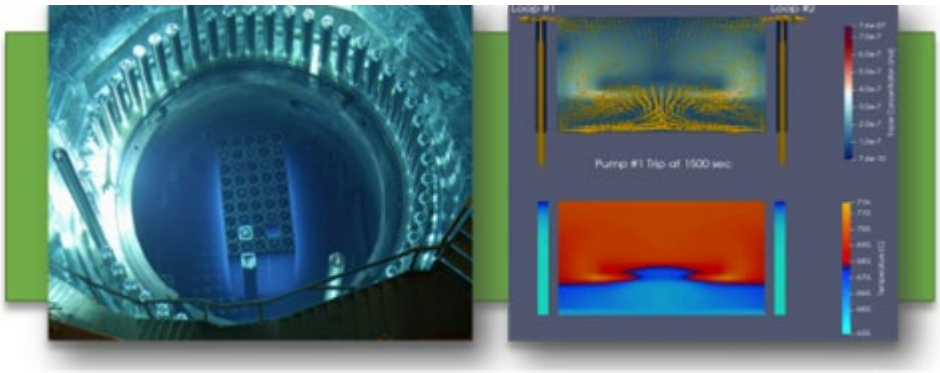
https://www.nuclearrosellc.com/

NUMERICAL ADVISORY SOLUTIONS

ADVANCED NUCLEAR | SUPPLIER

NUMERICAL ADVISORY SOLUTIONS
a Zachry Group company

Numerical Advisory Solutions, LLC (NAS) provides trusted, best-in-class software tools, analysis, engineering, and design services. We are internationally recognized for our expertise in thermal-hydraulic analysis, radiological analysis, safety analysis, licensing methods, quality assurance requirements and engineering software development. Our experience is rooted in design and support of operating nuclear power facilities; however, we support a wide variety of advanced reactor designs, including SMRs, non-LWRs, microreactors, research reactors and medical isotope facilities. NAS is also engaged in hydrogen production, carbon capture and chemical process projects supporting sustainability goals. With a focus on developing innovative, practical and cost-effective solutions to our customer's toughest problems, NAS collaborates with our clients to ensure the safe design and efficient operation of nuclear facilities worldwide. We also leverage advanced modeling and simulation software with cutting-edge technologies, such as AI/ML, to develop and apply tools like Digital Twins and other dynamic decision-making tools to improve efficiency in design, construction, and operations & maintenance. NAS, and predecessors, Zachry Nuclear Engineering, Inc., Proto-Power Corporation, Numerical Applications, Inc., and Computer Simulation & Analysis, Inc., have an established record of providing engineering services and software products to the nuclear industry worldwide for nearly 40 years.



Location: Cary, NC
Founded: 1984
Principal/CEO: James R. Harrell, President
Major Customers: Electric Utilities, advanced reactor designers, research organizations, regulators, architect/engineers, fuel vendors, and government energy agencies
Federal Engagement: DOE, ARPA-E, NRC
Preferred Point of Contact: James R. Harrell | harrelljr@numerical.com | 919-653-7651

https://www.numerical.com/

NUTHERM INTERNATIONAL, INC.

Nutherm is a small business concern serving the DOE and commercial nuclear power industry since 1979. We specialize in the design, manufacture, qualification, and commercial-grade dedication of systems and components for electrical power, control, and instrumentation. Nutherm's in-house lab features electrical performance, accelerated thermal aging, HELB, LOCA, and seismic testing along with numerous specialized testing devices. Nutherm maintains a Quality Assurance Program to support its products and services for safety-class and safety-significant applications. The Nutherm audited Quality Assurance Program meets the requirement of ASME NQA-1, 10 CFR 50 Appendix B, 10 CFR Part 21, ANSI/ASME Standard N45.2, and DOE Order 414.1D.

Location: Mt. Vernon, IL
Founded: 1976
Principal/CEO: Wade Bowlin
Major Customers: Los Alamos National Laboratory, Oak Ridge National Laboratory, Savannah River Site, Hanford Site
Federal Engagement: DOE, NRC
Preferred Point of Contact: sales@nutherm.com

https://www.nutherm.com

NUVISION ENGINEERING

NuVision Engineering is an engineering and technology services company specializing in nuclear applications. We provide technically advanced engineering solutions and services for governments and businesses worldwide. We also design and deploy rad-hardened robotic manipulators for use in radioactive environments, and advanced process systems to manage radioactive waste. Our customers include the U.S. and international governments, utility companies, and medical research facilities. Our experienced staff and portfolio enable us to provide solutions to complex problems safely, quickly, and cost effectively. NuVision was founded in 1971 and is headquartered in Pittsburgh, Pennsylvania, with major operational facilities near Charlotte, North Carolina.

Location: Pittsburgh, PA
Founded: 1971
Principal/CEO: Erich Keszler | ekeszler@nuvisioneng.com
Major Customers: U.S. and international governments, utility companies, and medical research facilities
Federal Engagement: DOE, GAIN, ARPA-E, NRC, U.S. and International Governments
Preferred Point of Contact: Michael Frankle | mfrankle@nuvisioneng.com

https://nuvisionengineering.com/

PARAGON ENERGY SOLUTION

Paragon

The nuclear industry's most trusted supplier

For over 30 years, Paragon has been supporting the nuclear industry with quality, innovation and an intense focus on customer service. With our ever-expanding product and service offerings, Paragon is positioned to serve the rapidly expanding SMR and Advanced Reactor designs with our certified HIPS FPGA based platform digital control systems, neutron flux monitoring systems and all critical equipment needs. This is in additional to our unwavering continued support for the existing commercial nuclear fleet and DOE facilities with our traditional product lines of nuclear industry qualified custom and COTS electrical, mechanical, HVAC and I&C equipment.

Paragon controls the complete project lifecycle, from design and qualification to manufacturing, testing and supply. Our in-house testing and equipment qualification capabilities include Seismic Testing on any of our four (4) seismic tables, Thermal Aging, Cyclic Aging & Testing, EMI / RFI Testing, Loss of Coolant Accident (LOCA) & High Energy Line Break (HELB) Testing, Software Verification & Validation, Cybersecurity, and much more.

Paragon's commitment to our Nuclear Safety Culture allows us to be in lock step with the values of the customers we serve while maintaining the highest levels of quality. Our Quality Assurance Program includes 10CFR50 Appendix B, 10CFR21, ASME NQA-1, CSA Z299.1-16, ASME Section III, N, NS, NPT and NR Certificates of Authorization, and our programs are audited by NUPIC and NIAC.

https://www.paragones.com

Location: Fort Worth, TX
Founded: 1990
Principal/CEO: Doug VanTassell
Major Customers: TVA, Constellation, Southern Co, Entergy, KHNP, OPG, Bruce Power, Bechtel
Federal Engagement: DOE, NRC, DOD
Preferred Point of Contact: John Portillo | jportillo@paragones.com

PARSONS CORPORATION

Parsons Corporation is a global leader in engineering, construction, technical, and management services. We deliver cutting-edge solutions across diverse industries including energy, essential infrastructure, critical minerals/materials, biotechnology, pharmaceuticals, data centers, semiconductors, aerospace, and defense. Parsons' comprehensive services are tailored to enable U.S. companies and their investors to successfully navigate the complexities of U.S. project execution and expansion. We drive speed to market production by offering expertise in project and facility master planning, early project cost estimating, Project Management Office (PMO) deployment, optimizing supply chain logistics, construction management, environmental management, and cybersecurity. With a robust network of offices across the United States, Parsons is strategically positioned to provide localized support and insights, ensuring your project journey is smooth, efficient, de-risked and successful.

Location: Chantilly, VA
Founded: 1944
Principal/CEO: Carey Smith
Major Customers: Private clients, utilities, critical minerals, nuclear fuel supply, U.S. defense, EMEA clients.
Federal Engagement: DOE, DoD, DHS
Preferred Point of Contact: Eric Barradale | eric.barradale@parsons.com

https://www.parsons.com/

PAXTON & VIERLING STEEL (NQA-1)

PVS: A Legacy of Excellence in NQA-1 Steel Fabrication

PVS is a structural steel fabricator with over 140 years of experience and is recognized for operating the most successful NQA-1 program in the U.S.. Within the past 25 years, we have specialized in verbatim compliant, nuclear-grade fabricated and coated steel to a range of sectors, including:

Commercial Nuclear: AP1000 nuclear island projects at Vogtle and Summer (FOAK & NOAK), SMR design reviews

Department of Energy (DOE) Nuclear: Hanford Site, Idaho National Lab (INL), Savannah River Site, Oak Ridge Y12 Medical Nuclear: SHINE Medical Technologies

Having the premiere AISC - N690 SME, in-house, we offer comprehensive evaluations, at risk.

Maintenance deck inside Vogtle Unit 3 containment vessel. March 2018 ©2018 Georgia Power Company All rights reserved.

Location: Carter Lake, IA
Founded: 1885
Principal/CEO: Tyler Owen
Major Customers: Westinghouse, CBI, WecTec, BNI, Kiewit, Parsons, Amentum, Fluor, NuScale
Federal Engagement: INL, SRS, Hanford, ORNL Y12, NASA
Preferred Point of Contact: Joe Wishard, BD Director | jwishard@pvsteel.com | 402-770-8709

www.pvsstructures.com

PMT NUCLEAR

PMT Nuclear (PMT) specializes in designing, manufacturing, qualifying and testing specialty equipment for use at commercial nuclear power plants and DOE facilities. Founded in 1994, PMT has been supplying purpose-built equipment such as chillers, air handling units, filtration units, heat exchangers, dampers, ductwork, actuators, fans, piping, cooling coils, flexible connections, and other specialty critical components to the nuclear industry for decades. We design equipment specifically for the intended application based upon your specification requirements. All design work and manufacturing occur at our 140,000 sq. ft. combination office / fabrication facility located in Woodridge, Illinois. Additionally, PMT has a robust commercial grade dedication (CGD) program and routinely dedicates all types of commodities, products, and equipment. PMT has a comprehensive Quality Assurance Program that meets the requirements of NQA-1 2008 Edition / 2009 Addenda and 10 CFR 50 Appendix B / 10 CFR Part 21. Our products and services can be provided as Safety Related / Safety Significant or as commercial grade.

Location: Woodridge, IL
Founded: 1994
Principal/CEO: Ben Campbell, President | Charles Wojcik, Vice President
Adam Toepper, Quality Assurance Manager | Mike Marcuccilli, Director of Nuclear Sales
Major Customers: Domestic / International Commercial Nuclear Power Plants, Department of Energy (DOE) Sites, Department of Defense (DOD) Contractors, and US National Laboratories
Federal Engagement: DOE
Preferred Point of Contact: Mike Marcuccilli | mmarcuccilli@ams-pmt.com | 630-470-7960

https://www.pmtnuclear.com/

POWER SYSTEM SENTINEL TECHNOLOGIES, LLC

ADVANCED NUCLEAR | SUPPLIER

PSStech
Guarding the Grid

Born out of a need to protect the nuclear industry, PSStech was founded to provide nuclear generating stations with open phase protection. PSStech provides design, manufacturing, and engineering services to the electric power industry and large industrial and commercial customers.

Location: Warrior, AL
Founded: 2014
Principal/CEO: Greg Franklin
Major Customers: U.S. Nuclear Power Plants, Electric Power Utilities, Large Industrial & Commercial Facilities
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Greg Franklin | | nfo@psstech.com | 205-631-3357 or 205-514-6702

https://www.psstech.com/

PRECISION CUSTOM COMPONENTS, LLC

PCC has been manufacturing large hydro, fossil, and nuclear power generation equipment in our York, PA location for over 140 years. We have fabricated NSSS vessels and other equipment for the nuclear and process industries including Westinghouse, GE, Framatome, ExxonMobil, Dow DuPont, U.S. Navy, DOE, National Labs, electric utilities, and others. Our nuclear manufacturing history dates back to the industry's origins with Shippingport-1 and continues to this day with SMR, Gen III+ and Gen IV reactor hardware and design support.

Location: York, PA
Founded: 1876
Principal/CEO: Gary Butler
Major Customers: Westinghouse, Framatome, NuScale, BWXT, US Navy, Bechtel, General Dynamics, Northrop Grumman, Dow DuPont, ExxonMobil, US DOE, and National Laboratories
Federal Engagement: DOE, NRC, DOD, NASA
Preferred Point of Contact: Blair Woodring | bwoodring@pcc-your.com | 717-881-2741

https://www.pcc-york.com/

PREMIER TECHNOLOGY

ADVANCED NUCLEAR | SUPPLIER

Located in Blackfoot, Idaho, just 30 minutes from the Idaho National Laboratory, Premier Technology, Inc. (Premier) is a recognized leader in nuclear fabrication. Premier has supported the nuclear industry for more than two decades, completing over 1,000 projects under nuclear quality assurance programs such as ASME NQA-1 and ASME Section III.

Premier has successfully performed over $250 million in work under nuclear quality assurance programs in the last decade with single projects as large as $80M. This includes prototype fabrication, first-of-a-kind builds, and full production runs.

Premier is committed to supporting the development and deployment of advanced reactors. Contact us to discuss your needs for manufacturability reviews and prototyping efforts or to discuss long-term partnerships for manufacturing of reactors.

Location: Blackfoot, ID
Founded: 1996
Principal/CEO: Shelly Sayer
Major Customers: Westinghouse, Areva, Bechtel, NuScale, INL, PNNL, ORNL, SRNL, Others
Federal Engagement: DOE, GAIN, NRC, Other
Preferred Point of Contact: Logan Worthington | lworthington@ptius.net | 208-785-2274

https://www.ptius.net/

Q•WAY LLC

Q•WAY LLC is a consulting firm specializing in nuclear quality assurance program development, auditing, and training services. We offer comprehensive NQA-1 Training, including performance-based NQA-1 Lead Auditor Training.

Our team has also developed a cost-effective, fully compliant NQA-1 Quality Assurance Program that meets all Part I requirements as well as Part II, Subparts 2.7 and 2.14. This program is ideal for companies seeking to enter the nuclear supply chain or perform nuclear-related work while maintaining compliance with NQA-1 standards.

In addition, QWAY LLC provides auditing services, including internal and supplier audits. We have successfully performed hundreds of audits for a wide range of clients.

Our staff led the effort to obtain the first NQA-1 certification issued to a Department of Energy (DOE) National Laboratory by the American Society of Mechanical Engineers. We use this experience and our collective knowledge and experience to serve customers in the nuclear industry.

Location: Shelley, ID
Founded: 2022
Principal/CEO: Daren Jensen
Major Customers: DOE National Labs, A&E Firms, Fabrication Organizations, Businesses Entering the Nuclear Sector, Universities, Any Organization Who Needs Auditing Services, NQA-1 Training or an NQA-1 Quality Assurance Program
Federal Engagement: NRC
Preferred Point of Contact: Daren Jensen | oneqway@gmail.com | 208 681-7201

https://www.qway.one/

RADQUAL, LLC

RadQual, LLC is a wholly owned subsidiary of International Isotopes Inc. and is one of only two United States based source manufacturing companies. RadQual and International Isotopes Inc. have over 150 years of combined experience in manufacturing radionuclide and sealed sources for nuclear and nuclear medicine communities. We focus our efforts on producing high quality products with superior customer service. All our products are manufactured under the highest quality standards of ISO 9001 and 13485 and have “CE” Mark registration. All our products carry a full lifetime warranty against manufacturing defects and a 100% customer satisfaction guarantee.

RadQual is also the only distributor for LEA Premium Calibration Standards in the United States and Canada. LEA produces a wide range of radioactive sources for control and calibration of equipment in the fields of radiation protection and metrology. LEA’s calibration and reference sources are measured according to ISO 17025:2017 under COFRAC accreditation, which provides the same traceability as the National Institute of Standards and Technology (NIST).

Location: Idaho Falls, ID
Founded: 2001
Principal/CEO: Steve Laflin
Major Customers: US and Canada National Laboratories and Nuclear Facilities
Federal Engagement: DOE, GAIN, NRC, Other
Preferred Point of Contact: Kevin Coltellaro | kcoltellaro@intisoid.com | 202-420-9716

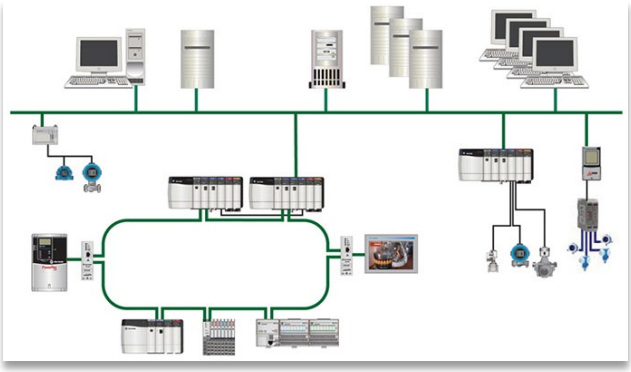
https://www.radqual.com

ROCKWELL AUTOMATION, INC.

ADVANCED NUCLEAR | SUPPLIER

Rockwell Automation is based in the United States and is the world's largest company dedicated to industrial automation and digital transformation. We participate in every step of the nuclear ecosystem, from mining, conversion, enrichment, fuel fabrication to control systems for Gen IV reactors. Our scalable and reliable hardware is combined with intuitive software that has become the trusted industry standard in North America. This technology is backed by 24/7 factory support and strengthened by a robust partner network of authorized distributors, system integrators, technology partners, EPCs and OEMs.

We also understand that a safe and secure OT environment is mandatory in the nuclear industry, so we provide domain expertise to design a cyber security architecture that also enables the use of advanced process controls and edge-based digital tools to optimize your process.



Location: Milwaukee, WI
Founded: 1903
Principal/CEO: Blake Moret
https://www.rockwellautomation.com/en-us.html
https://www.rockewllautomation.com/nuclear-power
Major Customers: BWXT, Westinghouse, Framatome, Centrus Energy, Curtis-Wright, DOE National Labs, NNSA Sites, Bechtel, Kairos Power, NASA, Northrop Grumman, TRISO-X
Federal Engagement: DOE, NNSA, DOD
Preferred Point of Contact: Jim Gibby | jimmy.gibby@rockwellautomation.com | 615-650-3967

SCOTTMADDEN

ScottMadden is a Management Consulting firm helping clients in every aspect of energy, including nuclear generation. We help our clients build tailored solutions to improve cost and operational performance. Our deep, practical nuclear experience helps maintain safe, reliable operations and support transformation for a net zero future.

Learn more: https://bit.ly/3GjKoU3

Location: Atlanta, GA
Founded: 1983
Principal/CEO: Brad Kitchens
Major Customers: Utilities & Nuclear Power Plants, Research Institutes, Vendors supporting the nuclear community
Federal Engagement: DOE, Idaho National Laboratory, National Labs
Preferred Point of Contact: Ed Baker | ebaker@scottmadden.com | 678-702-8302

https://www.scottmadden.com/

SIMPSON GUMPERTZ & HEGER INC.

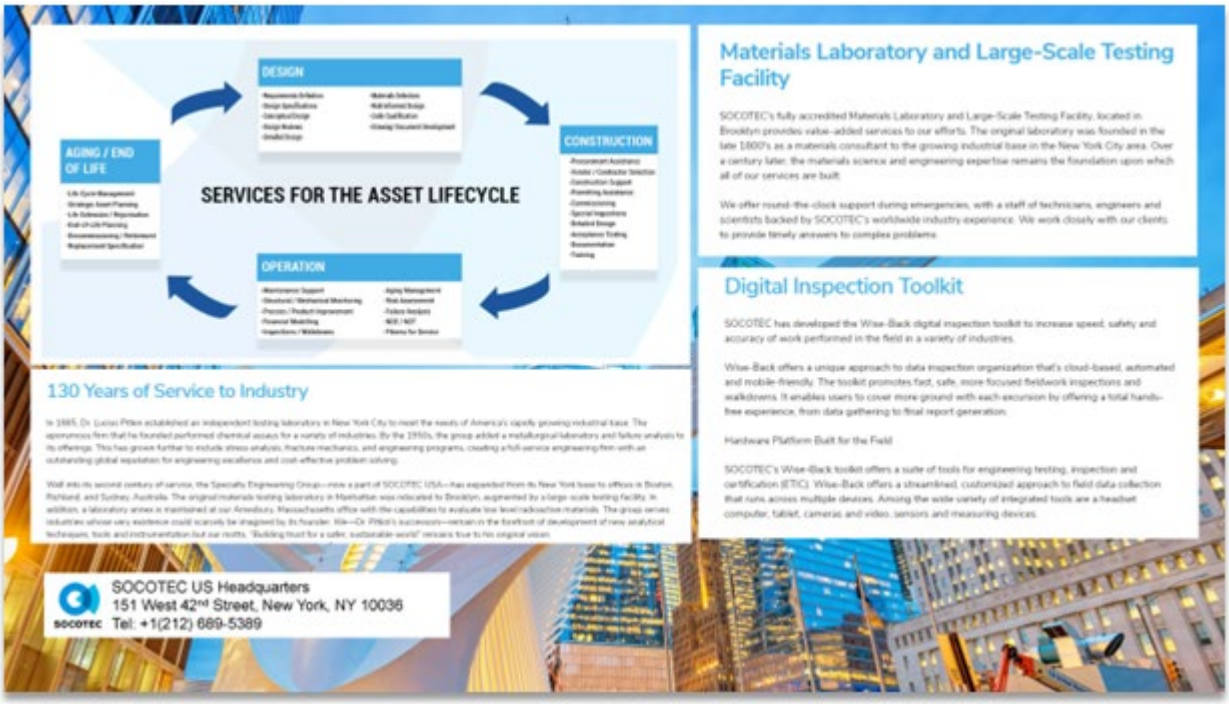
Simpson Gumpertz & Heger (SGH) is a national engineering firm committed to delivering holistic advice for our clients' most complex challenges. We leverage our collective and diverse experience, technical expertise, and industry knowledge of structures and building enclosures, advanced analysis, performance & code consulting, and applied science & research to deliver unrivaled, comprehensive solutions that drive superior performance. With 700 employees in eight office locations throughout the United States, SGH's industry-leading teams constantly seek to advance the meaning of what's possible.

Location: Waltham, MA
Founded: 1956
Principal/CEO: James Parker
Major Customers: Nuclear plants domestic & international, DOE & DOD facilities, A&E firms, architects, owners, advanced nuclear technology developers (confidential)
Federal Engagement: DOE, NRC, DOD, GSA
Preferred Point of Contact: Derrick Watkins | dawatkins@sgh.com | 858-997-8985

https://www.sgh.com/

SOCOTEC ENGINEERING

SOCOTEC optimizes the integrity and the sustainability of critical assets within the TIC (Testing, Inspection, Certification) industry in the construction and infrastructure sectors through consulting services, by assembling and coordinating holistic teams of technical experts and advisors to solve our clients' most complex problems, from conception to project execution, throughout the lifecycle of assets, around the globe.



Location: New York, NY
Founded: 1885
Principal/CEO: Robert Vecchio, CEO
Major Customers: INL, ANL, Entergy, EPRI, Duke, Holtec, Con Edison, PASNY, Vicinity, PANYNJ
Federal Engagement: DOE
Preferred Point of Contact: Mr. Sontra Yim | sontra.yim@socotec.us | 603-686-9676

https://www.socotec.us/

SOUTHERN NUCLEAR DEVELOPMENT, LLC

ADVANCED NUCLEAR | SUPPLIER

Southern Nuclear

Southern Nuclear Development, a subsidiary of Southern Nuclear Operating Company, pursues partnerships across the industry to drive the success of advanced nuclear technologies to be deployed as we move toward low- to no- carbon operations by 2050 — benefiting Southern Company customers for years to come. Southern Nuclear Development leverages decades of experience and research in nuclear operations, engineering, licensing and development to help advanced nuclear developers execute each phase of their strategy, from concept to commercial operation.

Location: Birmingham, AL
Founded: Non-disclosed
Principal/CEO: Stephen E. Kuczynski
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, EPA, FEMA
Preferred Point of Contact: Ben Carmichael | bmcarmic@southernco.com | 205-992-5944

https://www.southernnuclear.com/

SOUTHWEST RESEARCH INSTITUTE

SwRI is an independent, nonprofit, and multidisciplinary applied research and development organization. We are R&D problem solvers providing independent, premier services to government and industry clients. We work in the public's best interest and toward the betterment of humanity.

SwRI supports the commercial nuclear industry, and federal, state, and regional research and regulatory efforts across a broad spectrum of engineering and science areas.

- Performs multi-level material assessments for the nuclear industry, ranging from quick turn-around metallurgical and electronic failure analyses and mechanical testing programs to comprehensive studies which couple mechanical and material testing with computational modeling and risk assessments.
- High pressure and high temperature testing facilities are available to simulate the environmental conditions found in nuclear power plant. This includes a recirculating flow loop that replicates BWR and PWR primary water systems.
- Fire testing and modeling facilities support in-plant fire hazards, as well as performance of radioactive material storage and transportation packages.
- Provides technical evaluations in support of the licensing, inspection, and maintenance of facilities used across the nuclear fuel cycle. These evaluations are conducted by staff in the Center for Nuclear Waste Regulatory Analyses, a federally funded research and development center established in 1987 by the U.S. Nuclear Regulatory Commission (NRC), with augmentation across SwRI.
- Conducts multi-hazard risk assessments using deterministic and probabilistic methodologies to evaluate earthquake, flooding, tornado, tsunami, volcano, and other natural hazards. SwRI staff also have extensive experience in the Senior Seismic Hazard Analysis Committee (SSHAC) process (NRC NUREG-2213).
- Offers a team of mechanical engineering experts who focus on nondestructive evaluation of nuclear reactors in compliance with federal and international regulations, as well as engineers and scientists who specialize in failure analysis of electrical, hydraulic, and mechanical components.
- Extensive laboratories for environmental chemistry and radiochemistry investigations, including a wide range of chemical and radioactive contaminants.
- On-campus hot laboratory is available to evaluate radiologically contaminated parts and irradiate parts and components to assess their performance, all under an Institute Quality Plan that is 10 CFR Part 50 Appendix B compliant. This facility supports our extensive work for the U.S. Department of Energy (DOE) under the Off-site Source Recovery Program.
- Prepares and reviews environmental reports, environmental impact statements and other documents in support of National Environmental Policy Act (NEPA) evaluations for nuclear site. This work includes extensive public outreach and engagement.

Location: San Antonio, TX
Founded: 1947
Principal/CEO: Adam L. Hamilton, P.E., President and CEO
Major Customers: Non-disclosed
Federal Engagement: DOE, ARPA-E, NRC, DOD, DHS, DOI, DOT, NASA, EPA, Other
Preferred Point of Contact: Business Inquires Office | ask@swri.org | 210-522-2122

https://www.swri.org

STANDARD NUCLEAR

ADVANCED NUCLEAR | SUPPLIER

Standard Nuclear, Inc. is a technology company with the mission of delivering the essential building blocks of nuclear power reliably and at scale--enabling cost-effective, safe, and secure energy for the world. Standard Nuclear, the world's only reactor-agnostic advanced fuel manufacturer, operates multiple facilities at its campus located at 200 Europia Avenue in Oak Ridge, Tennessee. The company is focused on production of tri-structural isotropic (TRISO) fuel particles and other non-fuel advanced nuclear ceramics that are used in advanced reactor systems and other high temperature applications. Among the capabilities housed at our main campus are a commercial-scale TRISO productionline operating under our NQA-1 program. Standard Nuclear also holds unique design, engineering, analysis, assembly, and testing capabilities dedicated to the development of space and radioisotope power systems.

Location: Oak Ridge, TN
Founded: 2024
Principal/CEO: Dr. Kurt Terrani
Major Customers: Advanced Nuclear Reactor Developers, NASA, DoD, DOE
Federal Engagement: DOD, NASA
Preferred Point of Contact: Gus Gustavson | dgustavson@standardnuclear.com | 615-933-9665

https://www.standardnuclear.com/

STRATEGIC RESOURCE ALLIANCE, LLC

ADVANCED NUCLEAR | SUPPLIER

SRA is a specialized provider of training and workforce readiness solutions for highly regulated industries. Our flagship GoVantix™ Learning Management System (LMS) is purpose-built for Department of Energy contractors, nuclear cleanup programs, and other safety-critical environments.

We combine decades of DOE and commercial nuclear training experience with advanced digital platforms, immersive simulations, and rapid content development.

The result: compliant, engaging, and scalable audit-ready training programs that improve safety outcomes while reducing time and cost.

From block training and micro-modules to VR/AR hazard simulations, SRA helps organizations modernize training delivery without sacrificing rigor, accuracy, or compliance.

GoVantix
LEARNING MANAGEMENT SYSTEM

Location: Oak Ridge, TN
Founded: 2011
Principal/CEO: Greg White
Major Customers: UCOR (United Cleanup Oak Ridge), DOE
Federal Engagement: DOD
Preferred Point of Contact: Greg White | greg.white@sra-or.com | 678-361-7390

https://sra-or.com/

STRUCTURAL INTEGRITY ASSOCIATES, INC.

ADVANCED NUCLEAR | SUPPLIER

Structural Integrity Associates is a specialty engineering company serving the nuclear industry since 1989. Our talent and technology encompass monitoring & inspection capabilities, advanced analytical methods, and material assessment strategies to provide clients with expert asset integrity solutions and effective regulatory programs. Unique to our structural integrity capabilities are nuclear fuel engineer and structural analysis experts, and the most advanced fuel performance code in the nuclear industry.

Some of the services we provide include:

Engineering Analysis

• Perform stress, fracture mechanics, residual stress, dynamic/non-linear, computational fluid dynamics, and other advanced analyses using proprietary FEA tools and methods (ex. applied probabilistic fracture mechanics).
• Development of industry codes and standards including ASME, ASTM, ASNT, API, and others.
• Perform work under the auspices of documented and routinely audited Quality Assurance programs including NQA-1.

Materials Evaluations & Testing

• The latest field and laboratory testing technologies to identify causes of material degradation and damage.

Inspection & Monitoring

• Conduct Non-Destructive Examination (NDE) using state-of-the-art linear and annular phased array UT, TOFD,

Guided Wave, and Many Other Advanced NDE Technologies

• Develop and implement tooling customized to applications when needed.
• Apply technicians certified in accordance with ASNT and other standards' requirements.

Structural Integrity Associates maintains offices throughout the U.S.

Location: Charlotte, NC
Founded: 1989
Principal/CEO: Mark Marano, CEO | Tony Robinson, CNO
Major Customers: All major power generating utilities throughout North America. SI supports asset management programs for Nuclear, Fossil, and Renewable energy-producing power plants.
Federal Engagement: DOE
Preferred Point of Contact: Andy Crompton | acrompton@structint.com

https://www.structint.com/

STUDSVIK SCANDPOWER

Studsvik Scandpower is the global leader in the development and support of fuel vendor-independent nuclear fuel management software and world-class engineering services. Studsvik offers a full suite of licensing-grade software and consulting services throughout the world for reactor fuel and core design and analysis for PWRs, BWRs, VVERs, SMRs, and Advanced Reactors.

Key products include - CASMO5, SIMULATE5, S5K, GARDEL, CMSBuilder, MARLA, S3R, SNF, HELIOS2, Peacock, Concors, and Copernicus. Studsvik continues to develop state-of-the-art software to support the nuclear industry.

Location: Global
Founded: 1947
Principal/CEO: Art Wharton
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Melanie Joseph | melanie.joseph@studsvik.com

https://www.studsvik.com/

SYSTEM ONE HOLDINGS, LLC

ADVANCED NUCLEAR | SUPPLIER

System One is a leading provider of specialized, highly technical outsourced services and workforce solutions to critical infrastructure, technology, life sciences, and government sectors. We are a trusted and essential partner to large private and public organizations—mobilizing specialized, highly technical resources and expertise to execute their most complex, mission-critical programs and accelerate results. Founded more than 40 years ago as a staffing partner to the engineering industry, today System One is a diversified organization operating in over 50 locations and putting more than 9,000 people to work in the United States, Canada, and the United Kingdom.

System One supports the nuclear power industry to execute their complex, mission-critical initiatives through our outsourced services and workforce solutions. Our customers include domestic utilities, government laboratories supporting the US Departments of Defense and Energy, NSSS OEMs, EPCs, and other industry specialty manufacturers and service providers. For more information, visit systemone.com.

Location: Pittsburgh, PA
Founded: 2008
Principal/CEO: Troy Gregory
Major Customers: Savannah River Nuclear Services, Entergy, TVA, Constellation, Duke Energy, Framatome
Federal Engagement: DOE
Preferred Point of Contact: Bonnie Zodda-Schmidt | Director, Business Development
bonnie.zodda@systemone.com | 609-213-1929

https://systemone.com/

TAURUS teleSYS INC.

Taurus teleSYS, an Original Equipment Manufacturing (OEM) has implemented a Test Apparatus (TA) for hardware in the loop integrated testing and in emulation of a microgrid electrical transmission distribution and industrial data acquisition and control application.

Location: Newport News, VA
Founded: 1980
Principal/CEO: Arvind Patel
Major Customers: Newport News Shipbuilding, a HII subsidiary, Naval Nuclear Laboratory
Federal Engagement: DOE, Other
Preferred Point of Contact: Arvind Patel | apatel@tgate.com | 757-873-2700

https://sics-c.org/taurus-telesys/

TETRA TECH

Tetra Tech is a science, engineering, and construction firm that offers integrated services from front-end environmental science and planning through design, engineering, construction management, operations, and maintenance, of nuclear power plant systems. We currently employ SMEs from a variety of disciplines with full breadth knowledge of: reactor, safety, and balance of plant systems; nuclear quality assurance; operations (SRO); environmental assessment and permitting; and radioactive waste management.

Location: Pasadena, CA
Founded: 1966
Principal/CEO: Dan Batrack
Major Customers: Federal Aviation Admin., Nat'l Oceanic & Atmospheric Admin., US Agency for Int'l Development, US DOD (Air Force, Army, Navy, Army Corps of Engineers, Coast Guard), Dept. of Energy, Dept. of State, EPA, US Forest Service TerraPower, Exelon, Dominion, Southern Nuclear Co., Progress Energy, DTE Energy
Federal Engagement: DOE, ARPA-E, NRC, Other
Preferred Point of Contact: John Gonsky, Vice President, DOE and Nuclear Programs
john.gonsky@tetratech.com | 509-372-5814

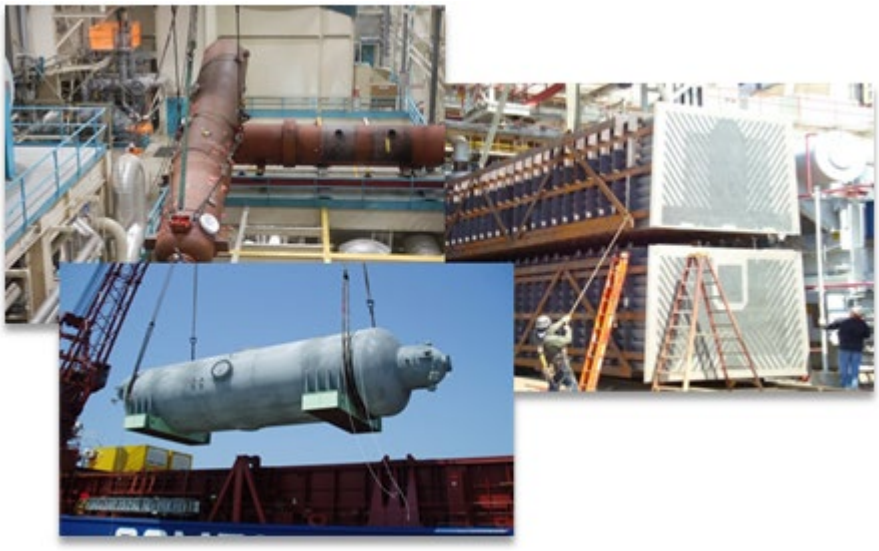
https://www.tetratech.com

THERMAL ENGINEERING INTERNATIONAL (USA) INC. (TEI)

A BABCOCK POWER INC. SUBSIDIARY

Thermal Engineering International (TEi), a Babcock Power Inc. Subsidiary, boasts over 65 years of expertise and a global presence in designing and manufacturing high-quality heat transfer equipment for the nuclear industry. As an industry leader, TEi specializes in the design and fabrication of a wide array of heat exchangers including moisture-separator reheaters, feedwater heaters, and condensers, supported by domestic fabrication at our Joplin, MO facility and a team of seasoned heat exchanger experts at our La Palma, CA headquarters.

TEi holds certifications including ISO 9001:2015, ASME S-III N, NPT, NS, NA, ASME S-VIII and S-I, B31.1, and operates under a 10CFR50 Appendix B Quality Program. Notably, TEi's extensive experience with molten salt and liquid sodium heat exchangers positions us to support advanced reactor designs effectively.



Location: La Palma, CA
Founded: 1956
Principal/CEO: Ken Murakoshi
Major Customers: US Nuclear Utilities, EPC Firms, US Navy Fleet, and SMR/MMR Developers
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Joseph Green, PhD, PE, Chief Nuclear Officer
josephgreen@babcockpower.com | 508-562-0894 | +44 07780447880

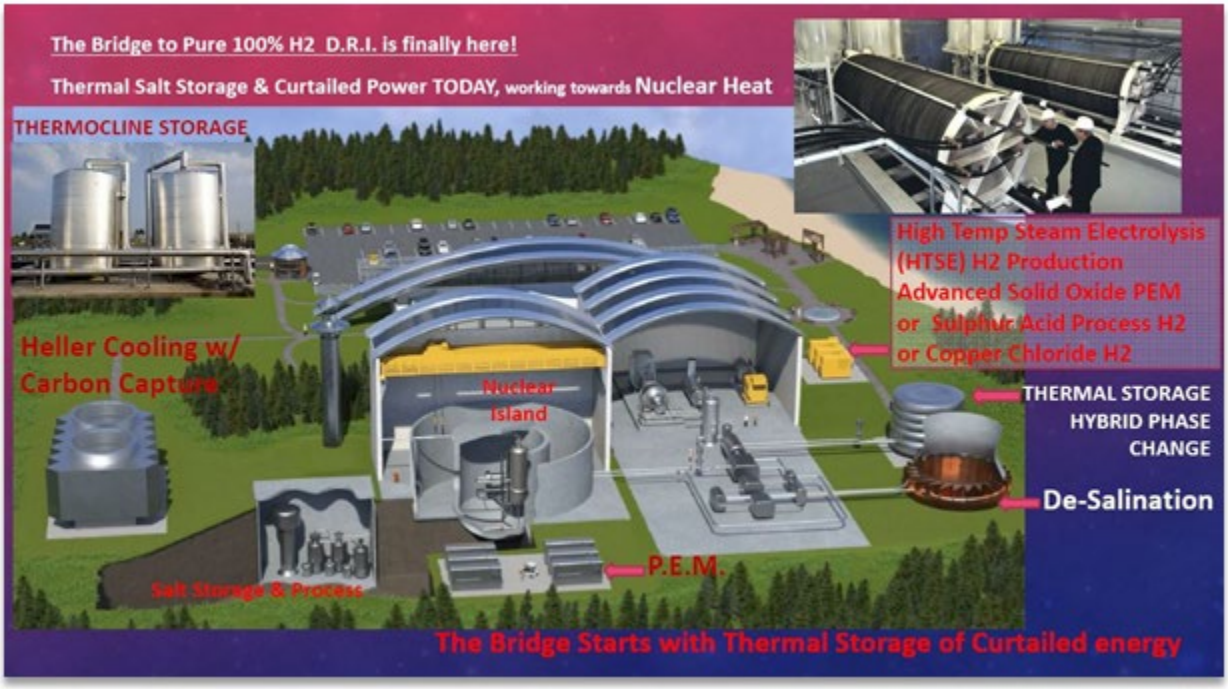
https://www.babcockpower.com/tei/

ADVANCED NUCLEAR | SUPPLIER

THORIUM ENERGY ALLIANCE

Thorium Energy Alliance
Thorium Will Power The World

Thorium Energy Alliance has been an international leader in promoting and advising on the use of Thorium in Fuels and Advanced Materials. TEA has helped set USA policy and has assisted public, private and university research efforts for over 15 years. TEA is a 501(c)3 Educational Advocacy organization.



Location: Harvard, IL
Founded: 2006
Principal/CEO: John Kutsch
Major Customers: Clients and membership are confidential. If a company or organization wishes to engage us, we can sign an NDA and discuss your needs.
Federal Engagement: DOE
Preferred Point of Contact: John Kutsch | director@thoriumenergyalliance.com | 312-303-5019

https://thoriumenergyalliance.com/

TIOGA

ADVANCED NUCLEAR | SUPPLIER

Tioga Nuclear® knows what it takes to supply critical components to the nuclear power industry. Founded on hard work and customer focus, Tioga has been delivering on expectations for more than 75 years

Tioga has continuously maintained our ASME Nuclear Certificate and QSC Material Organization status since 1982. Together, our personnel have more than 150 years of cumulative nuclear experience ranging from quality assurance to production.

Whether you need to procure unusual or difficult to find materials, meet special packaging and shipping standards or implement unique quality assurance requirements, Tioga Nuclear® has the experience and know-how to supply your needs. Whether you require pipe or plate, forgings or structural shapes, Tioga is the source for nuclear supply.

Combined with our unparalleled inventory of special metals, dedicated project management and global sourcing network, you can count on us to deliver the materials you need on-spec and on-schedule, with proper documentation.

We have been audited by NUPIC and NIAC and meet the requirements of ASME Section III, 10CFR50 Appendix B, N45.2, NQA-1, CAN3-N299 SERIES, & MIL-I-45208A.

Location: Philadelphia, PA
Founded: 1946
Principal/CEO: Bill Kotcher, President
Major Customers: Nuclear Utilities, DOE, National Labs, US Navy, Fabricators & OEMs
Federal Engagement: DOE
Preferred Point of Contact: Chris Burton, Bus. Development | cburton@tiogapipe.com | 440-479-3645

https://www.tiogapipe.com/

TRANSCO PRODUCTS INC.

Transco Products Inc. has been providing engineered Solutions to the Nuclear Industry for over 50 years. We offer cutting-edge robotic solutions, training and services for radiation identification and mitigation solutions, as well as Metal Reflective and Thermal Insulation Systems, Fire Protection Barriers, Penetration Seals and GSI-191 solutions.

Location: Streator, IL
Founded: 1980
Principal/CEO: Nathan Miller
Major Customers: Constellation Energy, Energy Solutions, Westinghouse, Framatome, Duke, Florida Power and Light, TVA, Talen Energy, USNC, X-Energy
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Sean Hawks | seanh@transcoproducts.com | 312-896-8464

https://www.transcoproducts.com/

WILLIAM COOK CAST PRODUCTS

WILLIAM COOK CAST PRODUCTS

ADVANCED NUCLEAR | SUPPLIER

Part of the family-owned William Cook group based in Sheffield, England, William Cook Cast Products supports customers globally with its full range of ultra-high specification cast steel components and assemblies. A complete range of design, prototyping, NDE, machining, and fabrication facilities support the foundry activities. Fully compliant with 10CFR Part 50 Appendix B and ISO 19443 and well advanced with ASME MO qualification.

Location: Sheffield, England
Founded: 1840
Principal/CEO: Sir Andrew Cook
Major Customers: Non-Disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: United States: John Wohler | jwohler@william-cook.co.uk | 01-435-71-3599
UK & Europe: Nora Harris | nharris@william-cook.co.uk | +44 (0) 7711 684446

https://www.william-cook.co.uk/

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NATIONAL LABORATORIES

ARGONNE NATIONAL LABORATORY

Argonne is a multidisciplinary science and engineering research center, where talented scientists and engineers work together to answer the biggest questions facing humanity, from how to obtain affordable clean energy to protecting ourselves and our environment. Ever since we were born out of the University of Chicago's work on the Manhattan Project in the 1940s, our goal has been to make an impact — from the atomic to the human to the global scale.

The laboratory works in concert with universities, industry, and other national laboratories on questions and experiments too large for any one institution to do by itself. Through collaborations here and around the world, we strive to discover new ways to develop energy innovations through science, create novel materials molecule-by-molecule, and gain a deeper understanding of our planet, our climate, and the cosmos.

Surrounded by the highest concentration of top-tier research organizations in the world, Argonne leverages its Chicago-area location to lead discovery and to power innovation in a wide range of core scientific capabilities, from high-energy physics and materials science to biology and advanced computer science.

Location: Lemont, IL
Founded: 1946
Principal/CEO: Paul K. Kearns, Laboratory Director
Federal Engagement: DOE-SC, DOE-NE, NNSA, DOE-EERE, NRC, ARPA-E, DOD, DHS
Preferred Point of Contact: Hussein S. Khalil | hkhalil@anl.gov | 630-252-7266

https://www.anl.gov

BROOKHAVEN NATIONAL LABORATORY

Brookhaven National Laboratory applies its expertise and world-class facilities to pressing scientific questions about everything from the fundamental forces of nature to the complex interactions of ecosystems and the environment. Our cutting-edge explorations reveal processes that unfold across the smallest and largest scales of time and space imaginable—from the building blocks of matter to the edges of the universe itself.

With our extensive core research capabilities and rich history of scientific breakthroughs, we advance the mission of the U.S Department of Energy's Office of Science through the study of nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time; energy and climate sciences to lead the United States towards a net-zero carbon economy; quantum information science and artificial intelligence research to transform communications and technology; and cross-disciplinary research to secure the Nation.

Location: Upton, NY
Founded: 1947
Principal/CEO: John Hill (Interim)
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Simerjeet K Gill | gills@bnl.gov

https://www.bnl.gov

IDAHO NATIONAL LABORATORY

Idaho National Laboratory (INL) is the nation's lead laboratory for nuclear energy research, development, demonstration, and deployment. INL's nuclear energy researchers work in a broad range of technical areas including:

· Unparalleled irradiation and post-irradiation examination

· Fuel fabrication and materials testing facilities

· High-performance computing

· Integrated energy systems

· The nuclear fuel cycle

INL also leads many of the DOE's Office of Nuclear Energy initiatives and programs that connect its unique nuclear energy R&D capabilities with stakeholders. This includes the Gateway for Accelerated Innovation in Nuclear (GAIN), the National Reactor Innovation Center (NRIC), the Light Water Reactor Sustainability (LWRS) program and the Nuclear Science User Facilities (NSUF).

Location: Idaho Falls, ID
Founded: 1949
Principal/CEO: John Wagner, Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NSUF, NEUP, NRC
Preferred Point of Contact: Jess Gehin | jess.gehin@inl.gov | 208-526-3486

https://www.inl.gov

LAWRENCE BERKELEY NATIONAL LABORATORY

BERKELEY LAB

Lawrence Berkeley National Laboratory accelerates science that delivers solutions and improves lives.

From fundamental discoveries to real-world deliveries, LBNL is advancing American priorities in science and technology, powering solutions to urgent national challenges, and producing the breakthroughs of tomorrow.

Location: Berkeley, CA
Founded: 1931
Principal/CEO: Michael Witherell, Laboratory Directory
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Peter Hosemann | phosemann@lbl.gov | 510-717-5752

https://www.lbl.gov

ADVANCED NUCLEAR | NATIONAL LABORATORY

LAWRENCE LIVERMORE NATIONAL LABORATORY

Lawrence Livermore National Laboratory

For more than 60 years, the Lawrence Livermore National Laboratory (LLNL) has applied science and technology to make the world a safer place.

Livermore's defining responsibility is ensuring the safety, security and reliability of the nation's nuclear deterrent. Yet LLNL's mission is broader than stockpile stewardship, as dangers ranging from nuclear proliferation and terrorism to energy shortages and climate change threaten national security and global stability. The Laboratory's science and engineering are being applied to achieve breakthroughs for counterterrorism and nonproliferation, defense and intelligence, energy and environmental security.

Location: Livermore, CA
Founded: 1952
Principal/CEO: Kim Budil, Laboratory Director
Federal Engagement: DOE, NRC, ARPA-E, GAIN, NNSA, DHS, Other
Preferred Point of Contact: Kiel Holliday | holliday7@llnl.gov | 925-422-4074

https://www.llnl.gov

LOS ALAMOS NATIONAL LABORATORY

Los Alamos National Laboratory's mission is to solve national security challenges through scientific excellence. The Laboratory conducts fundamental nuclear materials research for future nuclear reactor designs and fuel cycle options; develops detection technologies needed for global nuclear materials management and supports nuclear energy initiatives through advanced modeling and simulation.

This work includes:

- Fundamental advances in nuclear fuels and cladding materials
- Nonproliferation safeguards
- Reactor concepts
- Reactor waste disposition

Location: Los Alamos, NM
Founded: 1943
Principal/CEO: Thom Mason, Laboratory Director
Federal Engagement: DOE, GAIN, NRC, ARPA-E
Preferred Point of Contact: Chris Stanek | stanek@lanl.gov
Crystal Gallegos | cgallegos@lanl.gov | 505-69-8985

https://www.lanl.gov

OAK RIDGE NATIONAL LABORATORY

Oak Ridge National Laboratory (ORNL) is the U.S. Department of Energy's largest science and energy laboratory with signature strengths in computing, materials, neutron science, and nuclear science and technology. ORNL provides science and technology capabilities and services to extend the life of our existing light water reactor fleet, create and develop concepts for advanced reactor technologies, develop advanced nuclear fuels and fuel cycles, and support modernization of the U.S. nuclear regulatory infrastructure.

Location: Oak Ridge, TN
Founded: 1943
Principal/CEO: Stephen Streiffer, Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Dave Pointer | pointerwd@ornl.gov | 865-241-4472

https://www.ornl.gov

PAIFIC NORTHWEST NATIONAL LABORATORY

Pacific Northwest National Laboratory (PNNL) conducts research and development across the nuclear fuel cycle to support DOE and industry in development of advanced materials, advanced fuels and Gen IV reactors for the next generation of nuclear energy. Drawing on decades of expertise in nuclear science, engineering and regulation, along with its Category 2 Nuclear Facility assets, PNNL supports technology development across the TRL spectrum.

Location: Richland, WA
Founded: 1965
Principal/CEO: Deb Gracio. Laboratory Director
Federal Engagement: DOE, GAIN, NRC, ARPA-E, NNSA, DHS
Preferred Point of Contact: Mark Nutt | mark.nutt@pnnl.gov | 509-375-2984

https://www.pnnl.gov/nuclear-energy

SANDIA NATIONAL LABORATORIES

ADVANCED NUCLEAR | NATIONAL LABORATORY

Sandia National Laboratories

A Federally Funded Research and Development Center for the National Nuclear Security administration with a strong science, technology and engineering foundation enables Sandia's mission to develop advanced technologies to ensure global peace through a capable research staff working at the forefront of innovation, collaborative research with universities and companies and discretionary research projects with significant potential impact. Sandia National Laboratories' unique mission responsibilities in the nuclear weapons program create a foundation from which they leverage capabilities, enabling them to solve complex national security problems.

Location: Albuquerque, NM
Founded: 1949
Principal/CEO: Laura McGill, Laboratories Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Richard Griffith | rogrif@sandia.gov | 505-844-8232
David Luxat | dlluxat@sandia.gov | 505-844-1981

https://www.sandia.gov

SAVANNAH RIVER NATIONAL LABORATORY

Savannah River National Laboratory (SRNL) has core competencies in nuclear materials management and advanced materials design, manufacture, characterization and testing. SRNL has many unique laboratory facilities enabling the safe study and handling of nuclear materials and nuclear fuel as well as ultra-sensitive measurement and analysis of radioactive materials.

Location: Aiken, SC
Founded: 1951
Principal/CEO: Johney Green, Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: William Bates | William.bates@srnl.doe.gov | 803-725-1341

https://www.srnl.gov/

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PROGRAM PARTNERS

ADVANCED FUELS CAMPAIGN (AFC)

PROGRAM PARTNER

AFC is focused on the design, development, and qualification of advanced nuclear fuels and materials that can significantly improve the performance, safety, and efficiency of current and future nuclear reactors. The campaign's efforts encompass a variety of advanced nuclear fuel concepts, including Accident Tolerant Fuels (ATF), tri-structural isotropic (TRISO)-coated particle fuels, molten salt fuels, and metallic fuels.

The work conducted by the AFC is crucial for enhancing the overall safety and robustness of nuclear reactors, particularly in the event of accidents or extreme conditions. Furthermore, these advanced fuels aim to extend the operational life of nuclear fuel, reduce the amount of nuclear waste generated, and support the United States' strategic energy objectives by fostering innovation in nuclear technology.

AFC Laboratories

The Advanced Fuels Campaign is a collaborative effort involving teams from Idaho National Laboratory, Oak Ridge National Laboratory, Los Alamos National Laboratory, Pacific Northwest National Laboratory, Brookhaven National Laboratory, and Argonne National Laboratory.

https://nuclearfuel.inl.gov/

Preferred Point of Contact: Dan Wachs | daniel.wachs@inl.gov | 208-526-6393

ADVANCED MATERIALS AND MANUFACTURING TECHNOLOGIES (AMMT)

PROGRAM PARTNER

The Department of Energy, Office of Nuclear Energy Advanced Materials and Manufacturing Technologies (AMMT) program will provide the nuclear industry with next-generation high-performance materials and novel fabrication methods for expanded supply chains and demonstrate new technologies within the next decade.

The AMMT program consists of four core technical areas, namely, Advanced Materials and Manufacturing, Rapid Qualification, Environmental Effects, and Technology Maturation. These technical areas are strategically aligned with the program's major goals to achieve the overall mission and vision of the program. Integration of the four technical areas through collaboration is essential to the program's success.

ADVANCED MATERIALS & MANUFACTURING

The vision of the AMMT program is to develop materials as an integrated part of advanced manufacturing. An application-based materials design and development approach is used, integrating functional requirements, characterization, manufacturing data, AI/ML and modeling and simulation.

R&D in this technical area includes:

- Advanced materials development
- Advanced manufacturing technologies
- Traditional manufacturing and system integration

RAPID QUALIFICATION

Rapid qualification is the primary focus of the program. Qualification in the AMMT program includes assessing materials under conditions of temperature, stress, radiation, and corrosion. Accelerated qualification is achieved through the use of innovative testing techniques, advanced characterization, modeling and simulation, and AI/ML.

R&D in this area focus on:

- Rapid qualification framework
- High-temperature material qualification
- Advanced manufacturing qualification

ENVIRONMENTAL EFFECTS

Material evolution and lifetime in harsh advanced reactor environments must be part of a reactor material development and qualification program. The Environmental Effects technical area covers materials degradation for topics of concern to the NRC that are not covered by ASME, including corrosion and irradiation effects on mechanical properties.

R&D in this area includes:

- Performance evaluation under neutron irradiation
- Accelerated irradiation effect qualification
- Corrosion effects in nuclear environments

TECHNOLOGY MATURATION

To connect the development and qualification efforts to applications and deployment, the AMMT program incorporates technology maturation as a core technical area. The goal is to advance a technology by increasing its TRLs, moving it from concept through technology demonstration and validation to a reliable and scalable solution ready for real-world applications.

This technical area addresses:

- Component fabrication and evaluation for technology demonstration
- Codes and Standards
- Regulatory acceptance and licensing

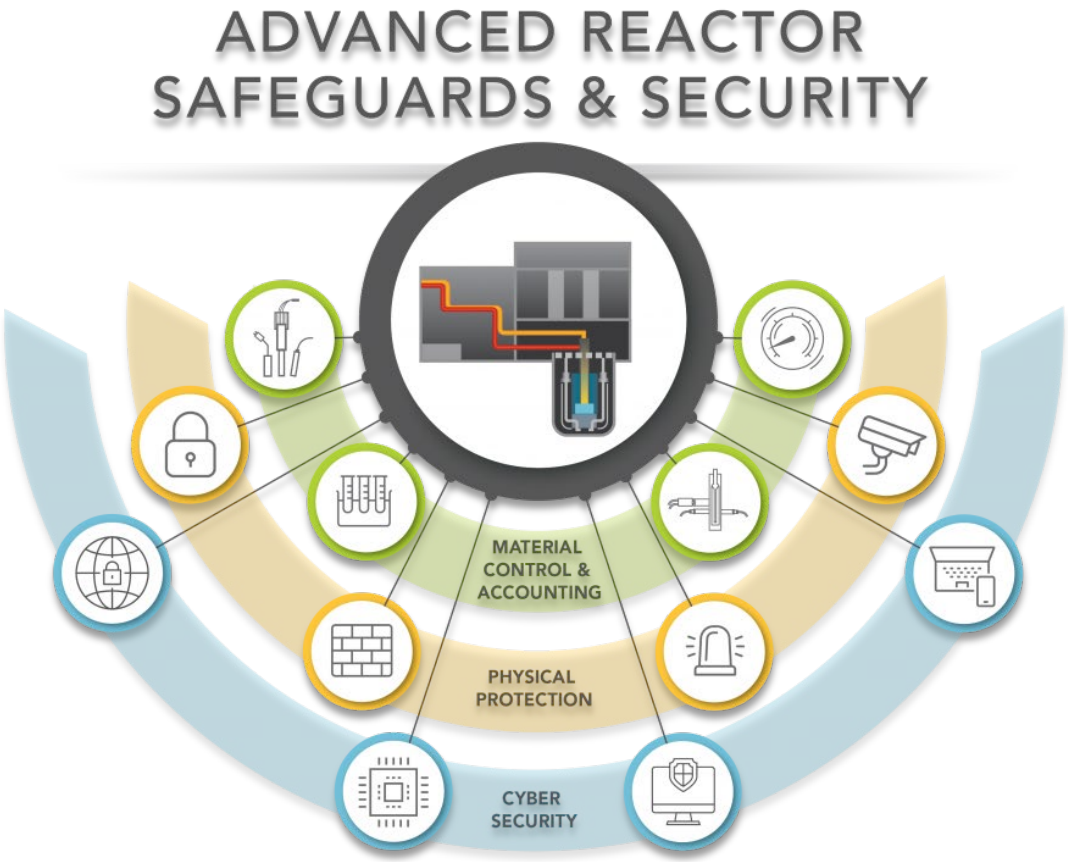
https://ammt.anl.gov/

Preferred Point of Contact: Meimei Li | mli@anl.gov

PROGRAM PARTNER

ADVANCED REACTOR SAFEGUARDS AND SECURITY (ARSS)

The Advanced Reactor Safeguards and Security (ARSS) program area in the Department of Energy, Nuclear Energy (DOE NE) seeks to support domestic deployment of advanced nuclear reactors by mitigating safeguards and security roadblocks. The program applies laboratory research and development to address near-term challenges advanced reactor vendors face in meeting Physical Protection System (PPS), Material Control and Accounting (MC&A), and Cybersecurity requirements for U.S. construction.



https://energy.sandia.gov/programs

Preferred Point of Contact: Ben Cipiti | bbcipiti@sandia.gov |

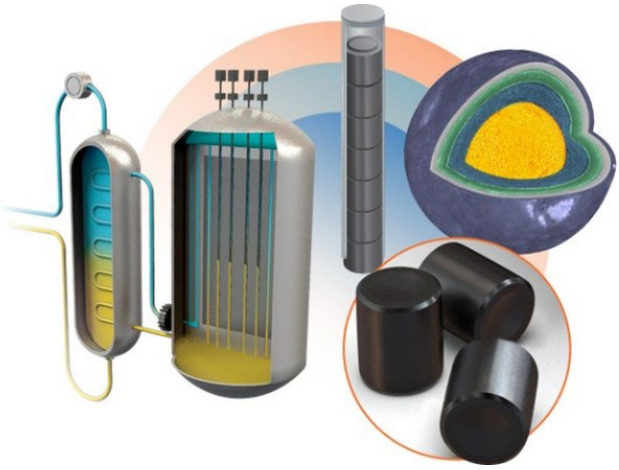
ADVANCED REACTOR TECHNOLOGIES GAS-COOLED REACTOR (ART-GCR) PROGRAM

PROGRAM PARTNER

The DOE Office of Nuclear Energy's Advanced Reactor Technologies Gas-Cooled Reactor (ART-GCR) Program supports research to reduce technical risk and enable deployment of advanced gas-cooled reactors. High-temperature gas-cooled reactors (HTGRs) are graphite-moderated, helium-cooled systems capable of outlet temperatures of approximately 700–950 °C, enabling efficient electricity generation and high-temperature industrial applications such as hydrogen production and process heat. Program activities generate foundational data on graphite, high-temperature materials, and core behavior to support reactor design and licensing. The program leverages unique capabilities across Idaho, Oak Ridge, and Argonne National Laboratories.

WHY IT MATTERS

HTGRs offer strong passive safety characteristics, small emergency planning zones, and high-grade process heat unavailable from conventional reactors. The ART-GCR program addresses the qualification and validation gaps that are the primary barriers to commercial deployment — delivering licensing-relevant datasets and validated methods that industry cannot efficiently generate independently.



FOCUS AREAS

- **Graphite Qualification** – Irradiation testing, baseline characterization, microstructural analysis, performance modeling, and oxidation studies for nuclear-grade graphite components.
- **High-Temperature Metals** – Qualification of advanced alloys and development of structural design methods to support ASME Code application and HTGR licensing.
- **Design, Methods & Validation** – Validated analysis tools, experimental benchmark data, and reactor analysis methods for HTGR design and safety assessment.
- **International Collaborations** – Participates in GIF, IAEA, OECD-NEA, and bilateral frameworks to share experimental data and leverage global HTGR research assets.

PROGRAM ECOSYSTEM ROLE

- TRISO fuel fabrication and qualification activities are coordinated with the **Advanced Fuels Campaign (AFC)**
- Advanced alloy development beyond HTGR application is addressed through the **Advanced Materials and Manufacturing Technologies (AMMT)** program
- Qualification data are curated through the **Nuclear Data Management and Analysis System (NDMAS)** at INL, ensuring traceability and long-term accessibility for industry and regulatory use.

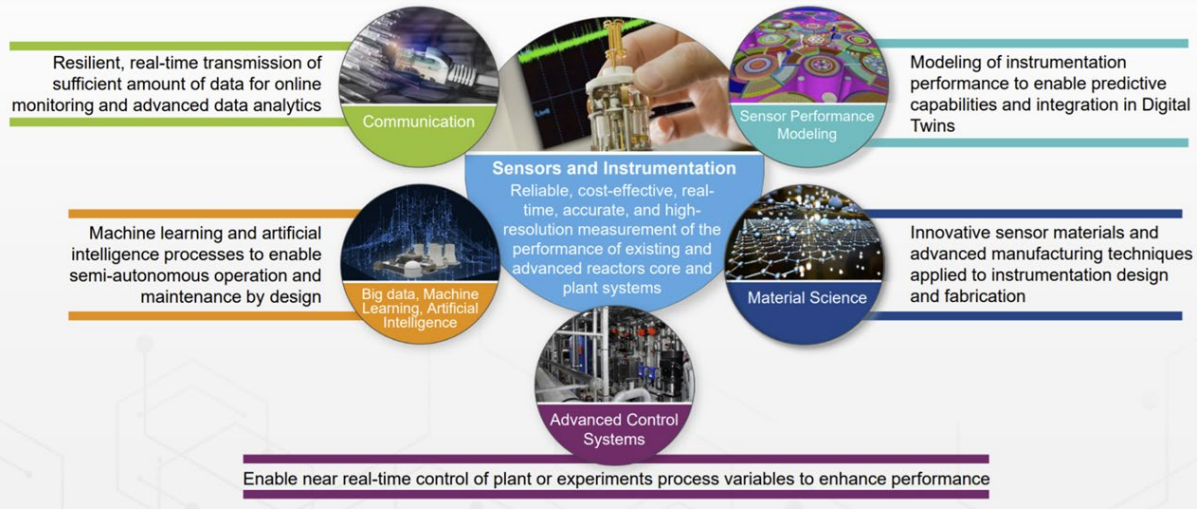
https://art.inl.gov/

Preferred Point of Contact: Gerhard Strydom | gerhard.strydom@inl.gov

ADVANCED SENSORS AND INSTRUMENTATION (ASI)

PROGRAM PARTNER

The Advanced Sensors and Instrumentation (ASI) program supports the programmatic research and development needs of the Department of Energy, Office of Nuclear Energy (DOE-NE), particularly in fuel and materials studies and integral testing. ASI advances measurement, control, and operational capabilities for both current and future nuclear reactor systems by developing sensors engineered for harsh environments, enhancing control methodologies, enabling semi-autonomous and fault-tolerant operations, and integrating predictive analytics. In addition, the program addresses critical R&D requirements for instrument development and deployment through the creation of digital technology platforms and the establishment of instrumentation qualification pathways.



https://asi.inl.gov/

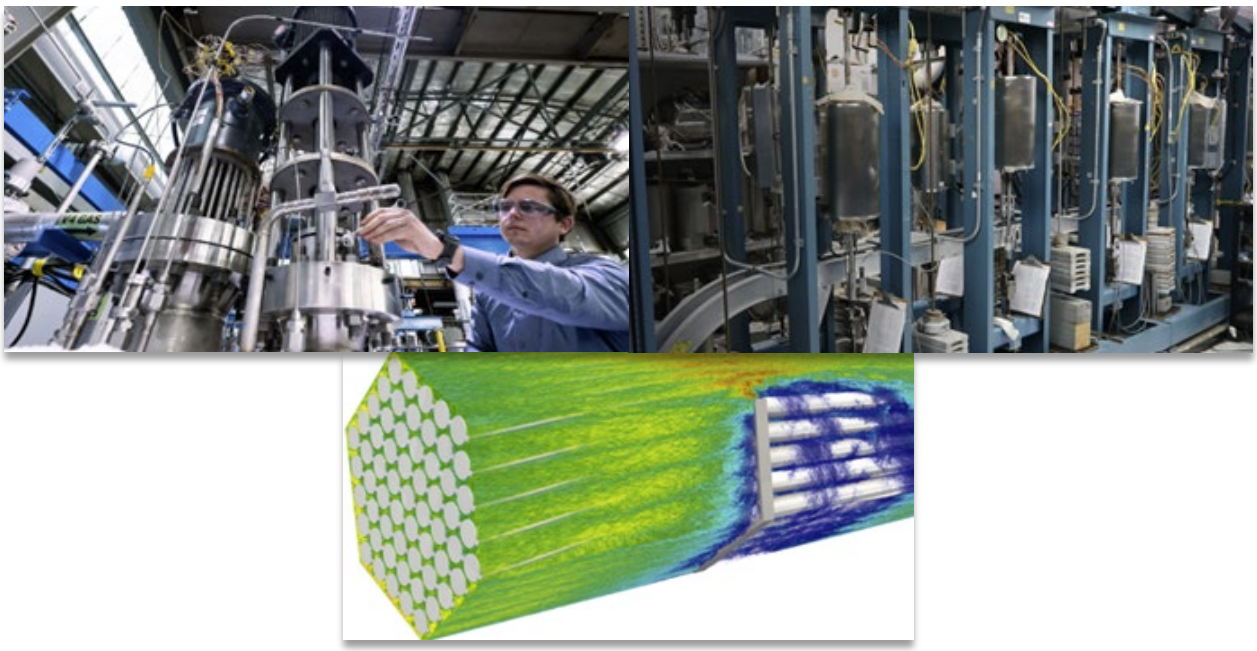
Preferred Point of Contact: Dianne Ezell | nora.ezell@inl.gov

FAST REACTOR PROGRAM (FRP)

PROGRAM PARTNER

The DOE-NE Fast Reactor Program leverages laboratory capabilities, infrastructure, and experience to conduct R&D that supports fast reactor deployment.

The Fast Reactor Program's mission is to anticipate, confirm, and develop the technical elements needed by industry to enable and sustain successful large-scale commercialization of fast reactors. The program is managed as part of the Department of Energy - Office of Nuclear Energy's (DOE-NE) Advanced Reactor Technologies (ART) portfolio. The program's R&D is led by the national laboratories and leverages the capabilities, data, and infrastructure that have been accrued over decades of experience involving the design, construction, and operation of multiple fast reactors and experiments.



https://www.anl.gov/nse/frp

Preferred Point of Contact: Bo Feng | frp@anl.gov |

HIGH PERFORMANCE COMPUTING (HPC)

PROGRAM PARTNER

INL's HPC resources provide scientific computing capabilities to support efforts in advanced modeling and simulation. These resources support a wide range of research activities, including multiscale multi-physics performance analysis of nuclear fuel, materials in harsh environments, and existing light water and advanced nuclear reactors.

INL HPC computing resources are available to industry, universities, national laboratories and federal agencies to support published and openly available research and development. Access is generally granted for research related to the DOE Office of Nuclear Energy and INL's mission areas.

The Teton supercomputer arrived at Idaho National Laboratory (INL) in October 2025. Teton was named after the mountain range on the Idaho-Wyoming border and sponsored by the Nuclear Science User Facilities. Teton consists of nearly 400,000 compute cores, quadrupling the compute capacity of INL's previously largest system, Sawtooth. It is comprised of 1024 compute nodes, each with 384 compute cores and 768 GB of memory.

https://inl.gov/hpc/

Preferred Point of Contact: HPCsupport@inl.gov

INTEGRATED ENERGY SYSTEMS (IES)

PROGRAM PARTNER

What are Integrated Energy Systems?

They are the physical and digital integration of energy sources and energy currencies to increase the thermodynamic efficiency and use of the system. The goal of integrated energy systems (IES) is to create efficient, affordable, reliable energy generation and delivery technologies for the United States.

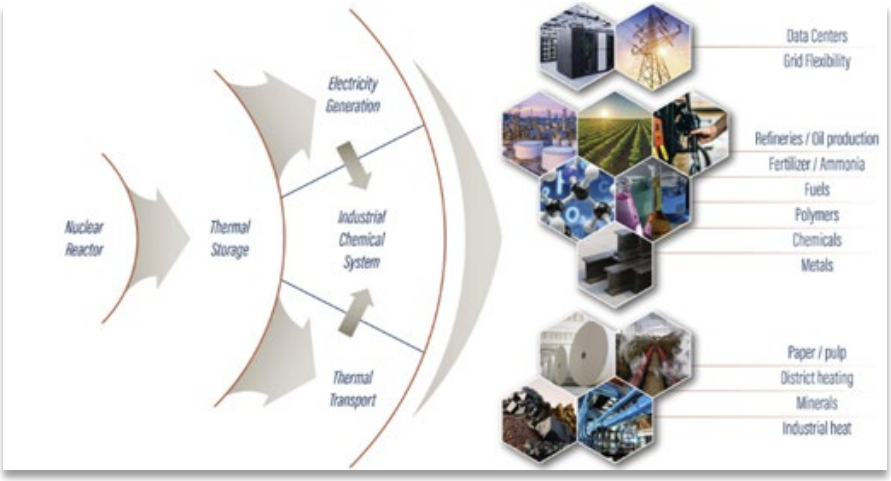
Development of IES may include multiple raw energy inputs (e.g., nuclear, fossil, wind, solar, hydropower and geothermal-based), multiple energy users (e.g., grid consumers, industrial heat or electricity users, transportation fuel users), and multiple energy storage options (e.g., thermal, electrical and chemical).

What are national labs doing?

The U.S. Department of Energy's (DOE) Office of Nuclear Energy (NE) supports a national laboratory IES program, which aims to help the country establish energy independence by reliably and safely delivering the thermal energy produced by nuclear reactors to industries that produce fuels, chemicals, materials and electricity.

The program conducts research development and deployment activities to expand the role of nuclear energy beyond supporting the electrical grid. Expanded roles include supplying energy to various industrial, transportation and energy storage applications.

Focusing IES development on enhanced use of energy generation options within IES will help the U.S. achieve more reliable and efficient energy systems for the foreseeable future. As energy demand continues to rise, it is important to create an abundant amount of energy considering not only near-term service demands but an enduring energy infrastructure that will be competitive and provide the energy services that provide a comfortable and high quality of life.



https://ies.inl.gov/

Preferred Point of Contact: Richard Boardman | richard.boardman@inl.gov | 208-526-3083

PROGRAM PARTNER

LIGHT WATER REACTOR SUSTAINABILITY (LWRS) PROGRAM

The Light Water Reactor Sustainability (LWRS) Program is sponsored by the U.S. Department of Energy (DOE) and coordinated through a variety of mechanisms and interactions with industry, vendors, suppliers, regulatory agencies and other industry research and development (R&D) organizations.

The LWRS Program has two objectives to maintain the long-term operations of the existing fleet:

- to provide science and technology-based solutions for industry to implement technology that exceeds the performance of the current business model; and
- to manage the aging of systems, structures and components (SSCs) so nuclear power plant lifetimes can be extended and the plants can continue to operate safely, efficiently and economically.

The LWRS Program research and development pathways are:

Plant Optimization	Long-Term Performance	Protection and Assurance
R&E to Address nuclear power plant economic viability in current and future energy markets through innovation, efficiency gains, and business model transformation using digital technologies	R&D to develop the scientific basis for understanding and predicting long-term environmental degradation behavior of materials in nuclear power plants	R&D to develop methods, tools, and technologies to optimize and modernize a nuclear facility's security posture

https://lwrs.inl.gov/

Preferred Point of Contact: Bruce Hallbert | bruce.hallbert@inl.gov | 208-521-6869

MICROREACTOR PROGRAM (MRP)

PROGRAM PARTNER

Through cross-cutting research and development and technology demonstration support, the Microreactor Program will enable broad deployment of microreactor technology by:

- Achieving technological breakthroughs for key features of microreactors
- Identifying and addressing technology solutions to improve the economic viability and licensing readiness of microreactors
- Enabling successful demonstrations of multiple domestic commercial microreactors

Microreactors are a class of very small modular reactors targeted for non-conventional nuclear markets. In the U.S., microreactor developers are currently focused on designs that could be deployed as early as the mid-2020s.

The U.S. Department of Energy (DOE) Microreactor Program was established to support research and development (R&D) of technologies related to the development, demonstration and deployment of very small, transportable reactors to provide power and heat for decentralized generation in civilian, industrial and defense energy sectors.

Led by Idaho National Laboratory (INL), the program conducts both fundamental and applied R&D to reduce the risks associated with new technology performance and manufacturing readiness of microreactors. The intent of the program is to ensure that microreactor concepts can be licensed and deployed by commercial entities to meet specific use case requirements. The program will also support R&D specific to certain reactor technologies to ensure relevancy and address the needs of commercial developers.

https://gain.inl.gov/doe-microreactor-program/

Preferred Point of Contact: John Jackson | john.jackson@inl.gov |

PROGRAM PARTNER

MATERIALS PROTECTION ACCOUNTING AND CONTROL TECHNOLOGIES (MPACT)

MPACT
Materials Protection Accounting and Control Technologies

Voltammetry probe to determine U and Pu concentrations in molten salt systems

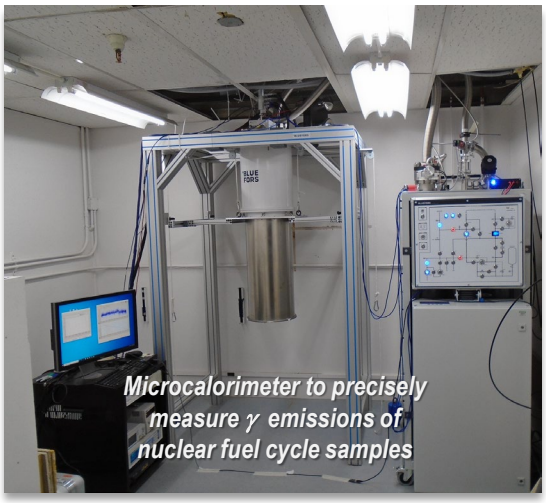
The Materials Protection Accounting and Control Technologies (MPACT) Campaign under the U.S. Department of Energy (DOE) Nuclear Fuel Cycle and Supply Chain (NFCSC) supports the U.S. nuclear fuel cycle front and back-end technology developers to address domestic safeguards requirements. MPACT executes activities that:

1. Develop innovative technologies, analysis tools, and advanced integration methods for material control and accounting (MC&A)
2. Work with government and industry nuclear fuel cycle innovators early in the technology development process to enable a cost-effective implementation of Safeguards and Security by Design (SSBD).

MPACT supports the development of Advanced Reactors via MC&A R&D for enabling processes such as High Assay Low Enriched Uranium (HALEU) production, advanced fuel fabrication, recycling, storage, and transportation.

MPACT activities span fundamental R&D through deployable systems and work with the Nuclear Energy University Program (NEUP) as well as the Small Business Innovation Research (SBIR) programs.

In addition to technology R&D, MPACT develops and provides domestic MC&A training as well as coordinates training opportunities within the National Laboratory complex.



Microcalorimeter to precisely measure γ emissions of nuclear fuel cycle samples

https://mpact.lanl.gov/

Preferred Point of Contact: Michael Browne | mcbrowne@lanl.gov

MATERIAL RECOVERY AND WASTE FORM DEVELOPMENT (MRWFD) PROGRAM

PROGRAM PARTNER

The Material Recovery and Waste Form Development program conducts applied research and development (R&D) on advanced fuel recycle technologies that have the potential to improve resource utilization and energy generation, reduce waste generation, and limit proliferation risk. The program focuses on developing advanced fuel cycle technologies incorporating safeguards by design while addressing fundamental materials separation and recovery challenges that present significant degrees of technical risks and financial uncertainties.

MRWFD provides unique nuclear chemistry expertise and technical capabilities in separation technologies to a broad range of applications by seeking a fundamental understanding of various chemical challenges related to civil nuclear applications. MRWFD stewards the capabilities and knowledge relied upon by policy makers to make informed decisions regarding nuclear fuel cycle options. Such decisions in turn rely on the development of efficient and economical separation methods that can accept the used nuclear fuel containing actinides and fission products to recycle selected actinides, recover valuable by-products, and deliver waste streams that are suitable for disposal.

There are five subprograms under MRWRD program:

- Accelerated EBR-II Processing
- Hybrid ZIRCEX Vapor Phase Extraction
- Aqueous/Actinide Separations
- Molten Salt Chemistry and Pyroprocessing
- Off-Gas and Waste Form Technologies

https://mpact.lanl.gov/FortyThree/MRWFD

Preferred Point of Contact: Ken Marsden | ken.marsden@inl.gov

MOLTEN SALT REACTOR PROGRAM (MSRP)

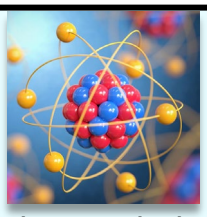
PROGRAM PARTNER

The DOE Molten Salt Reactor (MSR) Program serves as the hub for addressing the technology challenges to MSRs to enter the commercial market.

MISSION: Develop the technological foundations to enable MSRs for safe and economical operations while maintaining a high level of proliferation resistance.

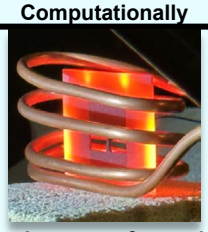
1. MSRs can provide a substantial portion of the energy needed for the US to achieve net zero carbon emissions by 2050 and
2. There is a need for an abundant energy worldwide for the foreseeable future.

Determination of the Thermophysical and Thermochemical Properties of Molten Salts – Experimentally and Computationally

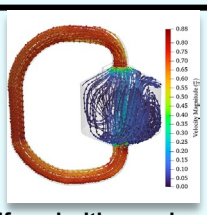


Developing new technologies to separate radioisotopes of interest to the MSR community

Radionuclide Release Monitoring, Sensors & Instrumentation, Liquid Salt Test Loop



Development of materials surveillance technology Graphite/Salt Interaction De-risk the transition from 316H to higher performance alloy 70



Identify, prioritize, and resolve technical gaps related to mechanistic source term (MST) modeling and simulation tools

https://gain.inl.gov/doe-molten-salt-reactor-program/

Preferred Point of Contact: Patricia Paviet | patricia.paviet@pnnl.gov | 509-372-5983

NATIONAL REACTOR INNOVATION CENTER (NRIC)

PROGRAM PARTNER

The NRIC team is committed to tackling the necessary tasks and challenges to identify and fill gaps that hinder advancing nuclear energy. This includes engaging with regulators and stakeholders and enhancing the U.S. Department of Energy (DOE) national laboratory infrastructure and capabilities.

Demonstrates the stages from concept to commercialization

https://nric.inl.gov/

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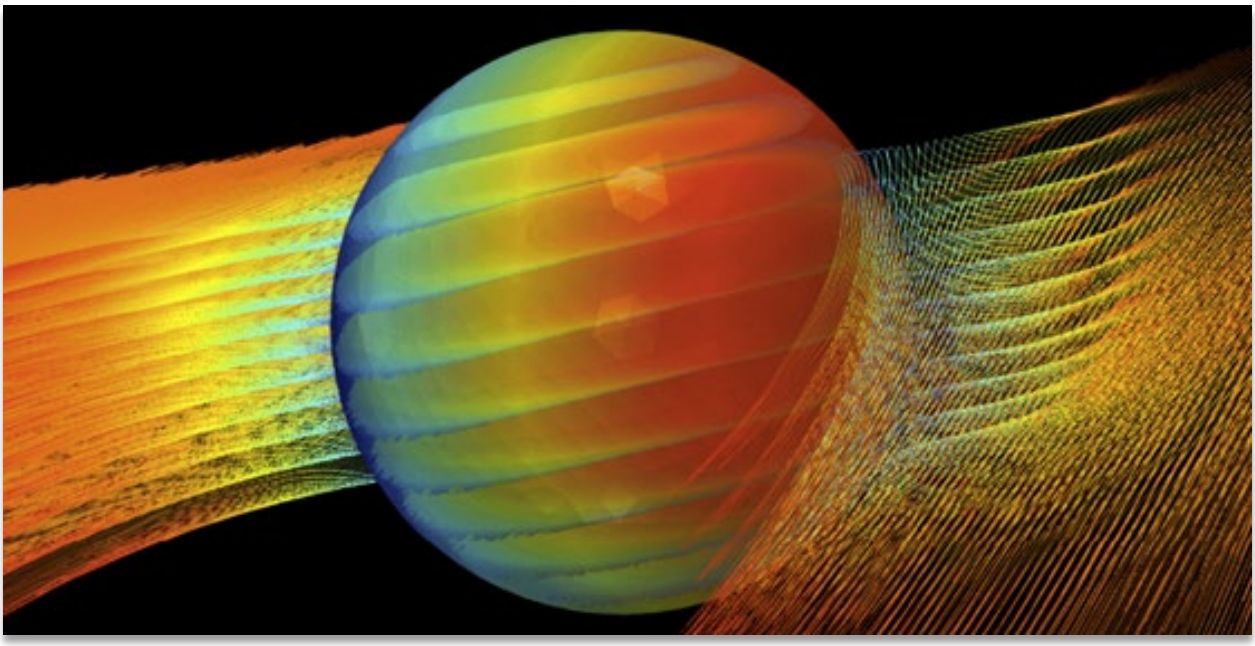
PROGRAM PARTNER

NUCLEAR ENERGY ADVANCED MODELING AND SIMULATION (NEAMS)

The Nuclear Energy Advanced Modeling and Simulation (NEAMS) program is a U.S. Department of Energy-Office of Nuclear Energy (DOE-NE) program developing advanced modeling and simulation tools and capabilities to accelerate the deployment of advanced nuclear energy technologies, including light-water reactors (LWRs), non-light-water reactors (non-LWRs), and advanced fuels. We leverage the nation's scientific talent to deliver on our nuclear energy objectives across six technical areas: Fuel Performance, Reactor Physics, Structural Materials and Chemistry, Thermal Fluids, Multiphysics, and Application Drivers.

The NEAMS program also manages lifecycle funds allocated to industry awards and the Nuclear Energy University Program (NEUP).



https://neams.inl.gov/

Preferred Point of Contact: David Andersson | andersson@lanl.gov

NUCLEAR ENERGY UNIVERSITY PROGRAM (NEUP)

PROGRAM PARTNER

The U.S. Department of Energy's Office of Nuclear Energy created Nuclear Energy University Program (NEUP) in 2009 to consolidate its university support under one program.

NEUP funds nuclear energy research and equipment upgrades at U.S. colleges and universities and provides student educational support.

NEUP plays a key role in helping the Department of Energy accomplish its mission of leading the nation's investment in the development and exploration of advanced nuclear science and technology.

The Department promotes nuclear energy as a resource capable of meeting the nation's energy, environmental and national security needs by resolving technical, cost, safety, security and proliferation resistance through research, development and demonstration.

RESEARCH

- Consolidated Innovative Nuclear Research (CINR)
- Distinguished Early Career Program (DECP)
- CINR Phase II Continuation
- Integrated Research Projects (IRP)

STUDENTS

- Scholarships
- Fellowships
- R&D Competition
- Resources

INFRASTRUCTURE

- General Scientific Infrastructure
- Infrastructure Revitalization
- Reactor Sharing
- Reactor Upgrades

https://neup.inl.gov/

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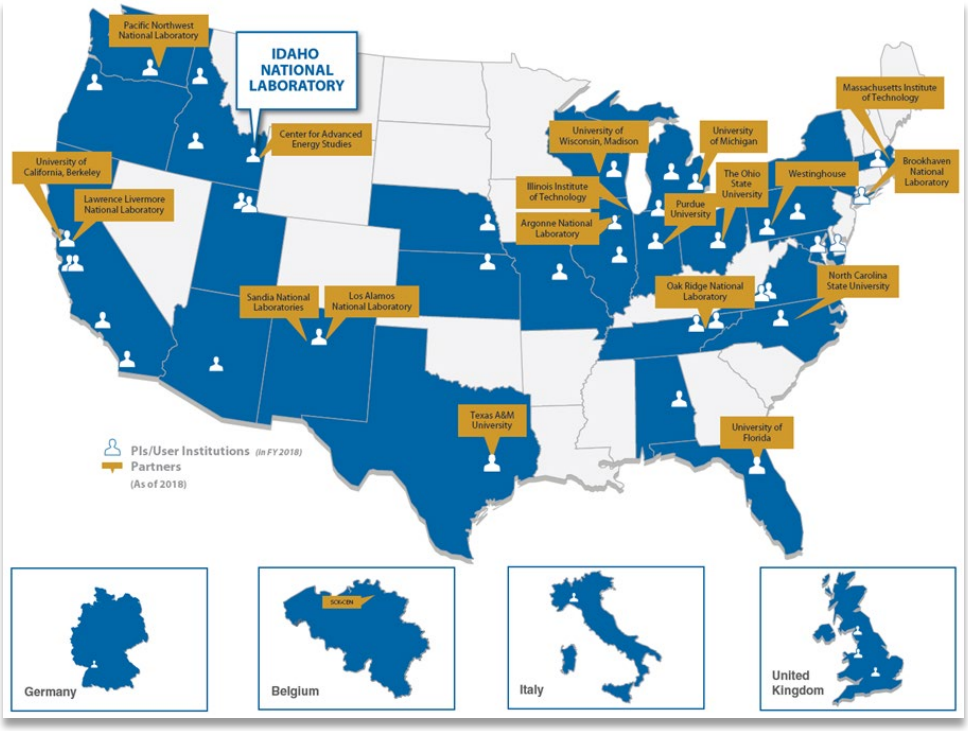
NUCLEAR SCIENCE USER FACILITIES (NSUF)

PROGRAM PARTNER

The Nuclear Science User Facilities (NSUF) offers unparalleled research opportunities for nuclear energy researchers. Users are provided access (at no cost to the researcher) to world-class nuclear research facilities, technical expertise from experienced scientists and engineers, and assistance with experiment design, assembly, safety analysis and examination.

Access to NSUF's 49 facilities at 21 partners institutions is awarded through two competitive peer-reviewed processes, Consolidated Innovative Nuclear Research (CINR) and the Rapid Turnaround Experiment (RTE). NSUF staff is available to help any researcher who desires to submit a proposal. Submitted proposals should be consistent with the DOE-NE mission and its programmatic interests. These include light water reactor sustainability, fuel cycle research and development, advanced modeling and simulation, and advanced reactor technology programs. All NSUF research must be non-proprietary, and results are expected to be published.



https://nsuf.inl.gov/

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SYSTEMS ANALYSIS AND INTEGRATION (SA&I)

U.S. DEPARTMENT of ENERGY
Office of Nuclear Energy

PROGRAM PARTNER

Systems Analysis and Integration develops and implements analysis processes and tools; performs integrated fuel cycle evaluations; and provides information that can be used to objectively inform the Department of Energy's (DOE) Office of Nuclear Energy (NE). This is applicable as decisions are made about overall research and development (R&D) directions and integration of Office of Nuclear Technology Research & Development activities on common fuel cycle goals are achieved.

Overview of the tools being leveraged by the Systems Analysis & Integration campaign for various studies.

- ACCERT (Algorithm for the Capital Cost Estimation of Reactor Technologies
- A-LEAF (The Argonne Low-carbon Electricity Analysis Framework)
- CYCLUS (A nuclear fuel cycle simulation platform)
- DYMOND (Dynamic Model of Nuclear Deployment)
- GCAM (Global Change Analysis Model)
- NE-COST (Nuclear Fuel Cycle Cost Calculator)
- Nuclear Fuel Cycle Options Catalog
- Nuclear Reactor Capital Cost Reduction Tool
- OR-SAGE (Oak Ridge Siting Analysis for power Generation Expansion)
- SET (Fuel Cycle Screening and Evaluation Tool)
- Transmutation Library
- VISION (Verifiable Fuel Cycle Simulation)

https://sai.inl.gov/

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RESOURCES

OFFICE OF ENERGY DOMINANCE FINANCING PROGRAM (EDFP)

U.S. DEPARTMENT of ENERGY

EDF's Energy Dominance Financing Program (EDFP) powered by the Working Families Tax Cut is a core pillar to the Administration's strategy to help win the global AI race by increasing the nation's energy supply through new eligibility for clean coal and oil and gas power-generated projects, securing critical mineral supply chains, and reinvigorating the nuclear industry.

The Energy Dominance Financing Program (Section 1706 or EDF Program) guarantees loans to projects that add energy to the grid or enhance reliability. The program finances projects that:

- Retool, repower, repurpose, or replace energy infrastructure that have ceased operations;
- Enable operating infrastructure to increase capacity and output; or
- Support or enable the provision of known or forecastable electric supply at time intervals necessary to maintain or enhance grid reliability or other system adequacy needs.

The Energy Dominance Financing Program can also finance critical materials projects and secure America's critical minerals supply chain, reflecting the important applications of critical minerals and materials across the energy sector.

For examples of current Energy Dominance Financing Program projects in EDF's portfolio, see the EDF Portfolio Projects page.

The Energy Dominance Financing Program can support a wide range of outcomes, including:

- Upgrading or uprating energy infrastructure so it can restart or operate at higher output
- Replacing retired energy infrastructure with new energy infrastructure to increase power available to the grid
- Building new dispatchable or baseload power generation facilities
- Maintaining, enhancing, or replacing electric grid and transmission infrastructure

Location: U.S. Department of Energy LP10
10000 Independence Ave, SW Washington, DC20585
Preferred Point of Contact: edf@hq.doe.gov | 202-287-5900

https://www.energy.gov/EDF

ACROYNYM LIST

ACRONYM	MEANING
A&E	Architecture & Engineering
ACU	Abilene Christian University
ADES	Accelerator Driven Energy Source
AFC	Advanced Fuels Campaign
AI/ML	Artificial Intelligence and Machine Learning
AISC	American Institute of Steel Construction
AMMT	Advanced Materials and Manufacturing Technologies
AMS	Analysis & Measurement Services
ANL	Argonne National Laboratory
ANSI	American National Standards Institute
API	American Petroleum Institute
APS	Arizona Public Service
AR	Advanced Reactor
AR	Augmented Reality
ARDP	Advanced Reactor Demonstration Program
ARIS	Advanced Reactor Information System
ARPA-E	Advanced Research Projects Agency – Energy
ARSS	Advanced Reactor Safeguards and Security
ART	Advanced Reactor Technology
ASI	Advanced Sensors and Instrumentations
ASME	American Society of Mechanical Engineers
ASME MO	American Society of Mechanical Engineers Nuclear Material Organization
ASMR	Advanced Small Modular Reactor
ASNT	American Society of Nondestructive Testing
ASTM	American Society for Testing and Materials
AWS	American Welding Society
BANR	BWXT Advanced Nuclear Reactor
BEA	Battelle Energy Alliance
BNI	Bechtel National Inc.
BNL	Brookhaven National Laboratory
BWR	Boiling Water Reactor
BWXR-300	300 Mwe Water-Cooled Natural Circulation Small Modular Reactor
BWXT	BWX Technology
CAD	Computer-Aided Design
CAE	Computer-Aided Engineering
CAM	Computer-Aided Manufacturing
CANDU	Canada Deuterium Uranium
CANM	Center for Advanced Nuclear Manufacturing
CAS	Competitive Access Systems
CASKLOAD	Software Product
CBCG	Columbia Basin Consulting Group
CBI	Chicago Bridge and Iron Company

ACRONYM LIST

CCW	Component Cooling Water
CE	CE Mark Registration; Mandatory Conformity Mark for Sellin in the EU/EEA
CECR	Controlled Electron Capture Reaction
CERN	European Organization for Nuclear Research (derived from the original French name Consel Européen pour la Recherche Nucléaire)
CFD	Computational Fluid Dynamics
CFR	Code of Federal Regulations
CGD	Commercial Grade Dedication
CHP	Certified Health Physicists
CINR	Consolidated Innovative Nuclear Research
CNS	Consolidated Nuclear Security
CNSC	Canadian Nuclear Safety Commission
CNX	Consolidated Nuclear Security
CO_2	Carbon Dioxide
COFRAC	French Accreditation Committee
COLA	Construction and Operating License Application
COSMO-SIMULATE	Software Product
COTS	Commercial-Off-The-Shelf
CPCCo	Central Plateau Cleanup Company
CTC	Concurrent Technologies Corporation
CTD	Composite Test Device
CWF	Certified Welding Fabrications
DARPA	Defense Advanced Research Projects Agency
DCF	DC Fabrications
DHS	Department of Homeland Security
DNES	Dubose National Energy Services
DOD	Department of Defense
DOE	Department of Energy
DOE-EDFP	Department of Energy - Energy Dominance Financing Program
DOE-EERE	Department of Energy - Office of Energy Efficiency and Renewable Energy
DOE-EM	Department of Energy - Office of Environmental Management
DOE-NE	Department of Energy - Nuclear Energy
DOE-SC	Department of Energy - Office of Science
DOI	Department of Interior
DOJ	Department of Justice
DOORS	Requirement Management Tool
DOT	Department of Transportation
DTC	Direct to Consumer
EBR-II	Experimental Breeder Reactor II
EDF	Electricitè de France
EDFP	Energy Dominance Financing Program
EDG	Emergency Diesel Generator
EFI	Ed Fagan Inc.
EM	Electrician’s Mate

ACRONYM LIST

EM^2	Energy Multiplier Module
EMC^2	Engineering Mechanics Corporation of Columbus
EMEA	Europe, the Middle East, and Africa
EMI	Electromagnetic Interference
ENEA	Italian National Agency for New Technologies, Energy, and Sustainable Economic Development
EOL	End of Life
EPA	Environmental Protection Agency
EPC	Engineering, Procurement, and Construction
EPFC	Engineering, Procurement, Fabrication, Construction
EPM	Engineering Planning and Management
EPRI	Electric Power Research Institute
ESBWR	Economic Simplified Boiling-Water Reactor
ETEBA	Energy, Technology, and Environmental Business Association
ETIC	Engineering Testing, Inspection, and Certification
FAI	Fauske & Associates Inc.
FATE	Flow, Aerosol, Thermal, and Explosion
FCI	Fluid Components International
FCM	Fully Ceramic Microencapsulated
FEA	Finite Element Analysis
FEI	Flibe Energy Inc.
FEMA	Federal Energy Management Agency
FHR	Fluoride Salt-Cooled High-Temperature Reactor
FME	Foreign Material Exclusion
FMEA	Failure Modes and Effects Analyses
FMR	Fast Modular Reactor
FOAK	First of a Kind
FPE	Fire Protection Engineers
FPGA	Field-Programmable Gate Array
FRP	Fast Reactor Program
FRs	Fast Reactors
GA	General Atomics
GA-EMS	General Atomics Electromagnetic Systems
GAIN	Gateway for Accelerated Innovation in Nuclear
GARDEL	Software Product
GCR	Gas-Cooled Reactor
GE	General Electric
GEH	GE Hitachi
GEN III	Generation III
GEN IV	Generation IV
GFR	Gas-Cooled Fast Reactor
GmbH	Gesellschaft mit beschränkter Haftung which translates to “Company with Limited Liability” in German
GNF	Global Nuclear Fuel

ACRONYM LIST

GSA	General Services Administration
GSI	Generic Safety Issue
GWe	Gigawatt Electric
GWhe	Gigawatt Hour Electric
H_2	Dihydrogen
H2C	Hanford Tank Wast Operations & Closure
HALEU	High Assay Low Enriched Uranium
HEI	Heat Exchange Institute
HELB	High Energy Line Break
HII	Huntington Ingalls Industries
HIPS FPGA	Highly Integrated Protection System Field Programmable Gate Array
HMIS	Hanford Mission Integration Solutions
HPC	High Performance Computing
HSB	Hartford Steam Boiler
HTGR	High-Temperature Gas Reactor
HTR	High Temperature Reactor
HTSD	High Temperature System Designs
HVAC	Heating, Ventilation, and Air Conditioning
I&C	Instrumentation and Control
IAEA	International Atomic Energy Agency
IEC	Idaho Environmental Coalition
IEEE	Institute of Electrical and Electronic Engineers
IES	Integrated Energy Storage
IES	Integrated Energy Systems
IMSR	Integral Molten Salt Reactor
INFUSE	Innovation Network for Fusion Energy
INL	Idaho National Laboratory
IPO	Initial Public Offering
IPyC	Inner Pyrolytic Carbon
IR	Infrared
ISEA	International Safety Equipment Association
ISL	Information Systems Laboratories
ISO	International Organization for Standardization
ITER	International Nuclear Fusion Research and Engineering Project Designed to Demonstrate the Feasibility of Fusion Power
KAERI	Korean Atomic Research Institute
KHNP	Korea Hydro & Nuclear Power
KLOROS	Advanced Molten Salt Modular Reactor
KP-FHR	Kairos Power Fluoride Salt-Cooled High Temperature Reactor
KP-X	Kairos Power 140 Mwe Commercial Reactor
kW	Kilowatt
kWe	Kilowatt Electric
LANL	Los Alamos National Laboratory
LBNL	Lawrence Berkeley National Laboratory

ACRONYM LIST

NDE	Non-Destructive Examination
NEAMS	Nuclear Energy Advanced Modeling and Simulation
NEC	Nuclear Energy Consultants
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NEUP	Nuclear Energy University Program
NFPA	National Fire Protection Association
NIAC	Nuclear Industry Assessment Corporation
NIH	National Institute of Health
NIST	National Institute of Standards and Technology
NNL	Navel Nuclear Laboratory
NNP	New Nuclear Power
NNSA	National Nuclear Security Administration
NOAK	Nth-of-a-Kind
Non-LWR	Non-Light Water Reactor
NPP OPS	Nuclear Power Plants Operations
NPPD	Nebraska Public Power District
NPT	National Pipe Thread
NQA	Nuclear Quality Assurance
NRC	Nuclear Regulatory Commission
NRIC	Nuclear Reactor Innovation Center
NSSS	Nuclear Steam Supply System
NSUF	Nuclear Science User Facility
Nuclear ROSE	Nuclear Regulatory Oversight, Safety, and Environmental
NUPIC	Nuclear Procurement Issues Committee
NUREG	U.S. Nuclear Regulatory Commission Technical Report
NVE	NuVision Engineering
NYSE	New York Stock Exchange
O_2	Dioxygen
OEM	Original Equipment Manufacturer
OPG	Ontario Power Generation
OPyC	Outer Pyrolytic Carbon
ORCA	Off-grid Reactor for Continuous and Autonomous Application
ORNL	Oak Ridge National Laboratory
OT	Operational Technology
PANYNJ	Port Authority of New York and New Jersey
PARCS	Purdue Advanced Reactor Core Simulator
PAS	Portable Air Sampler
PASNY	Power Authority of State of New York
PbBi	Lead Bismuth
PCC	Precision Custom Components
PDF	Portable Document Format
PE	Professional Engineers
PG&E	Pacific Gas and Electric Company

ACRONYM LIST

PMO	Project Management Office
PNNL	Pacific Northwest National Laboratory
PRA	Probabilistic Risk Assessment
PRISM	Power Reactor Innovative Small Module
PRW	Pressurized Water Reactor
PSPR	Principal Seismic Probabilistic Risk
PSStech	Power System Sentinel Technologies
PVS	Paxton & Vierling Steel
PWR	Pressurized Water Reactor
QAP	Quality Assurance Program
QSC	Quality System Certificate
R&D	Research and Development
RADTRAD	RADionuclide Transport, Removal, and Dose
RCC-E	Desing and Constructions Rules for Electrical Equipment in Nuclear Facilities
RELAP-5	Reactor Excursion and Leak Analysis Program
RF	Radio Frequency
RFI	Radio Frequency Interference
RHR	Residual Heat Removal
ROSE	Regulatory Oversight, Safety and Environment
RTE	Rapid Turnaround Experiment
S&P	Standard & Poor’s
S3K	Software Product
SA&I	Systems Analysis and Integration
SBIR-STTR	Small Business Innovation Research-Small Business
SC-HTGR	Steam Cycle High-Temperature Gas Reactor
SFR	Sodium-Cooled Fast Reactor
SG	Steam Generator
SGH	Simpson Gumpertz & Heger
SiC	Silicon Carbide
SLOTH	Strategic Logistical Operation for Onsite Task Handling
SME	Subject Matter Expert
SMR	Small Modular Reactor
SMR-160	Robust Small Modular Reactor that Delivers 160 MW Net Electric in a Small Footprint
SNAP™	Symbolic Nuclear Analysis Package
SNF	Software Product
SNL	Sandia National Laboratories
SNRS	Savannah River Nuclear Solutions
SRA	Strategic Resource Alliance
SRF	Superconducting Radio Frequency
SRMC	Savannah River Mission Completion
SRNL	Savannah River National Laboratory
SRNS	Savannah River Nuclear Solutions
SRO	Senior Reactor Operator
SRS	Savannah River Site

ACRONYM LIST

SSHAC	Senior Seismic Hazard Analysis Committee
STUK	Säteilyturvakeskus (Finland Radiation and Nuclear Safety
SwRI	Southwest Research Institute
T&D	Transmission and Distribution
TA	Test Apparatus
TEA	Thorium Energy Alliance
TEi	Thermal Engineering Industries
TEMA	Tubular Exchanger Manufactures Association
TIC	Testing, Inspection, Certification
TOFD	Time of Flight Diffraction
TRACE	TRAC/RELAP Advanced Computational Engine
TRIGA	Training, Research, Isotopes, General Atomics
TRISO	TRi-structural ISOtropic
TRL	Technology Readiness Level
TVA	Tennessee Valley Authority
UAMPS-CFPD	Utah Associated Municipal Power Systems – Carbon Free Power Project
UCLE	U.S. Nuclear Corp.
UCO	Uranium Oxycarbide
UCOR	United Cleanup Oak Ridge
UCSD	University of California San Diego
UNR/NTF	University of Nevada – Nevada Terawatt Facility
UO_2	Uranium Dioxide
UPCYCLE	Nuclear Waste-to-Fuel Conversion Process
UPF	United Plastic Fabricating
UPS	Uninterruptible Power Systems
US	United States
USA	United States of America
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USNC	Ultra Safe Nuclear Corp.
USNIC	United States Nuclear Infrastructure Council
UT	Ultrasonic Testing
UV/VR	ASME Certifications
V&V	Verification and Validation
VDR	VDL Groep, a Major Dutch International Industrial Manufacturing Company
VR	Virtual Reality
WBENC	Women’s Business Enterprise National Council
xLPR	Extremely Low Probability of Rupture
XMR	Extra Modular
ZBL™	Zero Ball Loss

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