

## GAIN NE VOUCHER RECIPIENTS FY 2016 – FY 2024

Click on the  for a copy of the completed summary	GAIN NE Voucher Recipient	Proposal	Partner Facility
	<b>FY2024 Round 2</b>		
	<b>Element Factory, LLC Cheyenne, WY</b>	<a href="#">Investigation of Spark Plasma Sintering (SPS) Process Development for Graphite Neutron Moderator Production</a>	Idaho National Laboratory
	<b>Kanata America, Inc. Cheyenne, WY</b>	<a href="#">Thermal Energy Storage with sCO<sub>2</sub> Power Conversion for Low-Cost Micro Modular Reactors – Heat Transfer and sCO<sub>2</sub> Power Cycle Assessment</a>	Sandia National Laboratories
	<b>Oklo Inc. Santa Clara, CA</b>	<a href="#">Test Vehicle Development to Support Oklo's Advanced Fuels Roadmap</a>	Idaho National Laboratory
	<b>FY2024 Round 1</b>		
	<b>ARC Clean Technology, Inc. Washington, D.C.</b>	<a href="#">Improvements to Passive Heat Removal Systems in SAS4A/SASSYS-1</a>	Argonne National Laboratory
	<b>Aalo Atomics Austin, TX</b>	<a href="#">Independent Code-to-Code Verification of Aalo-1 Fuel and Core Performance</a>	Idaho National Laboratory
	<b>Boston Atomics Boston, MA</b>	<a href="#">Horizontal Refueling and Remote Handling Design Review</a>	Oak Ridge National Laboratory
	<b>Energy Northwest Richland, WA</b>	<a href="#">Future Climate Projections for Dry and Wet Condenser Cooling Options</a>	Argonne National Laboratory
	<b>Global Nuclear Fuels – Americas Wilmington, NC</b>	<a href="#">Confirm Product Quality Achieved by Using Electroreduction Technology to Convert GNF Provided Uranium Oxides to Metal</a>	Argonne National Laboratory
	<b>SHINE Technologies Janesville, WI</b>	<a href="#">Safeguards Technologies and Assessments to Support Efficient UNF Recycling in the U.S.</a>	Argonne National Laboratory Sandia National Laboratory
	<b>Westinghouse Electric Co. LLC Cranberry Township, PA</b>	<a href="#">Ceramic Matrix Composites (CMC) Irradiation Testing</a>	Oak Ridge National Laboratory
	<b>FY2023 Round 4</b>		
	<b>Metotomic, Inc. Greenville, SC</b>	<a href="#">Metatomic Molten Salt Immersed Hydrochlorination Subsystem Characterization</a>	Savannah River National Laboratory

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	<b>NuScale Power LLC</b> Corvallis, OR	<a href="#">Assessment of NuScale SMR Steam heat Augmentation for Chemical Plant Decarbonization</a>	Oak Ridge National Laboratory
	<b>FY2023 Round 3</b>		
	<b>ARC Clean Technology, Inc.</b> Washington, D.C.	<a href="#">Development of Cladding Protective Coating for FOAK ARC-100 Reactor Facility</a>	Argonne National Laboratory Idaho National Laboratory
	<b>Alpha Tech Research Corp</b> American Fork, UT	<a href="#">Advanced Moderator Module Validation for the Alpha Tech Micro Molten Salt Reactor</a>	Argonne National Laboratory Los Alamos National Laboratory
	<b>General Atomics</b> San Diego, CA	<a href="#">Post-Irradiation Examination to Quantify Irradiation-Induced Bowing of SiGA® Silicon Carbide Composite Structures</a>	Oak Ridge National Laboratory
	<b>Kairos Power, LLC</b> Alameda, CA	<a href="#">ICP-MS For Analysis of Lithium Isotopic Ratios in Materials Highly Enriched in 7Li</a>	Pacific Northwest National Laboratory
	<b>Moltex Energy USA LLC</b> Wilmington, DE	<a href="#">Salt to Metal to Salt Heat Transfer in Narrow Fuel Pins</a>	Argonne National Laboratory
	<b>Ultra Energy (Weed Instrument Company, Inc)</b> Round Rock, TX	<a href="#">High Temperature Neutron Flux Detector - Reactor Testing</a>	Oak Ridge National Laboratory
	<b>Westinghouse Electric Company LLC</b> Cranberry Township, PA	<a href="#">PIE-Enabled Study of Aqueous Corrosion &amp; Zr Hydriding in Cr-Coated Cladding</a>	Pacific Northwest National Laboratory Idaho National Laboratory
	<b>FY2023 Round 2</b>		
	<b>Curio Solutions</b> Washington, D.C.	<a href="#">Redox Potentials for Proliferation-Hardened Actinide Recovery in NyCycle</a>	Idaho National Laboratory
	<b>FY2023 Round 1</b>		
	<b>Dow</b> Midland, Michigan	<a href="#">Assessment of SMRs for Dow</a>	Idaho National Laboratory

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	<b>Flibe Energy, Inc.</b> Huntsville, AL	<a href="#">Thermal Property Measurements for an LEU-Fueled Molten Salt Reactor</a>	Argonne National Laboratory
	<b>Oklo Inc.</b> Santa Clara, CA	<a href="#">Experimental and Software Validation of Integral Thermal-hydraulic Behavior in Fuel Assemblies</a>	Argonne National Laboratory
	<b>Radiant Industries Inc.</b> El Segundo, CA	<a href="#">An Advanced Multiphysics Simulation Capability for Radiant's Microreactor Design and Shielding Analysis</a>	Argonne National Laboratory
<b>FY2022 Round 4</b>			
	<b>Curio Solutions</b> Washington, DC	<a href="#">Criticality Safety Analysis for NuCycle</a>	Oak Ridge National Laboratory
	<b>ElementlPower LLC</b> Greer, SC	<a href="#">Elementl Power LLC</a>	Oak Ridge National Laboratory
	<b>Tennessee Valley Authority</b> Chattanooga, TN	<a href="#">TVA Siting Study</a>	Oak Ridge National Laboratory
<b>FY2022 Round 3</b>			
	<b>Orano Federal Services LLC</b> Charlotte, NC	<a href="#">LEU+ UF6 Physical Chemistry Study</a>	Oak Ridge National Laboratory
	<b>TerraPower, LLC</b> Bellevue, WA	<a href="#">Chlorine Nuclear Data Measurement and Evaluation</a>	Los Alamos National laboratory
<b>FY2022 Round 2</b>			
	<b>Elysium Industries USA</b> New York, NY	<a href="#">Advanced Functional Membrane Testing for Noble Gas Management in a Molten Salt Reactor</a>	Pacific Northwest National Laboratory
	<b>Kairos Power</b> Alameda, CA	<a href="#">Deployment of Advanced Electroanalytical Sensos in the Kairos Power Engineering Test Unit (ETU)</a>	Argonne National Laboratory
	<b>Terrestrial Energy USA, Inc.</b> Charlotte, NC	<a href="#">Investigation of the Structural Integrity and Corrosion Resistance of Surface Treatment on Alloy-709 in a Molten Fluoride Salt Environment</a>	Idaho National Laboratory











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	<b>*Ultra Safe Nuclear Corp.</b> Seattle, WA	<a href="#">Support for Analysis of USNC Micro Modular Reactor Fuel Performance</a>	Idaho National Laboratory
	<b>FY2022 Round 1</b>		
	<b>Framatome Inc.</b> Lynchburg, VA	<a href="#">Modeling of Two-Phase Boiling Flow and Critical Heat Flux with the Star-CCM+® and NEK-2P CFD Codes</a>	Argonne National Laboratory
	<b>*Ultra Safe Nuclear Corp.</b> Seattle, WA	<a href="#">Deployment and Characterization Support for USNC Pilot Fuel Manufacturing Facility</a>	Oak Ridge National Laboratory
	<b>FY2021 Round 4</b>		
	<b>Kinectrics AES, Inc.</b> Naperville, IL	<a href="#">Extension of Cable Electrical Assessment Techniques to Detect and Discriminate Radiation Aging on Cable Insulation Systems</a>	Pacific Northwest National Laboratory
	<b>FY2021 Round 3</b>		
	<b>Engineered Solutions Group LLC</b> Brevard, NC	<a href="#">SMR Containment Cable and EPA System</a>	Oak Ridge National Laboratory
	<b>Vega Wave Systems, Inc.</b> West Chicago, IL	<a href="#">Radiation Testing for High-Resolution, Radiation-Hardened Camera Systems</a>	Argonne National Laboratory
	<b>FY2021 Round 2</b>		
	<b>Lightbridge Corp.</b> Reston, VA	<a href="#">Development of Casting Techniques for <math>\delta</math>-phase Uranium- Zirconium Alloys</a>	Pacific Northwest National Laboratory
	<b>Oklo Inc.</b> Sunnyvale, CA	<a href="#">Experimental and Systems-Level Validation of Thermal-Hydraulic Behavior in SFRs</a>	Argonne National Laboratory
	<b>Radiant</b> El Segundo, CA	<a href="#">Microreactor Control Drum Failure Simulation</a>	Idaho National Laboratory
	<b>FY2021 Round 1</b>		
	<b>Exelon Generation</b> Kennett Square, PA	<a href="#">Advanced Nuclear Fuel Pellet Designs</a>	Oak Ridge National Laboratory

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	TerraPower, LLC Bellevue, WA	<a href="#">Density Measurements of Plutonium Bearing Salts via Neutron Beam Dilatometry</a>	Los Alamos National Laboratory
	Westinghouse Electric Company, LLC Columbia, SC	<a href="#">Multiphysics Design Optimization and Additive Manufacturing of Nuclear Components</a>	Oak Ridge National Laboratory
	<b>FY2020 Round 4</b>		
	Kairos Power Alameda, CA	<a href="#">Pebble Bed Large Eddy Simulations for Lower Order Methods Benchmarking and Uncertainty Quantification Development</a>	Argonne National Laboratory
	Natura Resources, LLC Abilene, TX	<a href="#">RELAP5-3D Development and Assessment for Liquid-fuels Molten Salt Reactor Licensure</a>	Idaho National Laboratory
	TerraPower, LLC Bellevue, WA	<a href="#">Thermophysical Properties Measurements of NaCl-PuCl<sub>3</sub></a>	Argonne National Laboratory
	<b>FY2020 Round 3</b>		
	SMR, LLC Camden, NJ	<a href="#">Coupled Neutronic and Thermal Hydraulic Analysis of a Natural Circulation Based Small Modular Reactor Using VERA-CS</a>	Oak Ridge National Laboratory
	Ultra Safe Nuclear Corporation – Technologies (USNC-Tech) Seattle, WA	<a href="#">Graphite Finite Element Model Verification</a>	Oak Ridge National Laboratory
	<b>FY2020 Round 2</b>		
	Neutroelectric, LLC Williamstown, NJ	<a href="#">Combined Effects Testing of High- Temperature and Neutron Fluence to Support the Qualification of NE- 300, a High-Temperature Neutron Shielding Material</a>	Oak Ridge National Laboratory
	Oklo, Inc. Sunnyvale, CA	<a href="#">Addressing Gaps in Legacy Data on Fuel Steel Interactions</a>	Idaho National Laboratory
	<b>FY2020 Round 1</b>		
	Hydromine, Inc. New York, NY	<a href="#">On-Line Lead/Water heat Exchanger Sensor/System Feasibility</a>	Pacific Northwest National Laboratory

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	<b>Lightbridge Corporation</b> Reston, VA	<a href="#">Advanced Test Reactor Experiment Design for Measurement of Lightbridge Fuel™ Thermophysical Properties</a>	Idaho National Laboratory
	<b>FY2019 Round 4</b>		
	<b>Analysis and Measurement Services Corporation (AMS)</b> Knoxville, TN	<a href="#">Testing of Instrumentation and Control Sensors and Cables for Small Modular Reactors</a>	Oak Ridge National Laboratory
	<b>HolosGen, LLC</b> Manassas Park, VA	<a href="#">Advanced Coolant and Moderator Enclosure Solutions for Micro Gas Cooled Reactors with Enhanced Efficiency and Safety</a>	Argonne National Laboratory
	<b>FY2019 Round 3</b>		
	<b>Flibe Energy Inc.</b> Madison, AL	<a href="#">Metal Organic Frameworks for Noble Gas Management in the Liquid Fluoride Thorium Reactor</a>	Pacific Northwest National Laboratory
	<b>TerraPower LLC</b> Bellevue, WA	<a href="#">Improvements to SAS4A Severe Accident Modeling Capabilities to Support Licensing and Commercialization of TerraPower’s Traveling Wave Reactors</a>	Argonne National Laboratory
	<b>Westinghouse Electric Company, Columbia Fuel Fabrication Facility (CFFF)</b> Hopkins, SC	<a href="#">Nuclear Material Holdup Modeling and Measurement Campaign for the Columbia Fuel Fabrication Facility</a>	Oak Ridge National Laboratory
	<b>FY2019 Round 2</b>		
	<b>Flibe Energy Inc.</b> Madison, AL	<a href="#">Liquid Fluoride Thorium Reactor (LFTR) Preliminary Safeguards Assessment</a>	Oak Ridge National Laboratory
	<b>Framatome USA</b> Lynchburg, VA	<a href="#">Advanced Metallic U-Zr Fuel for LWR Applications – FMEA and PIRT Development</a>	Idaho National Laboratory
	<b>Kairos Power</b> Alameda, CA	<a href="#">Develop ASME Section III Division 5 Design Rules for Elevated Temperature Cladded Class A Type 316 Stainless Steel Components</a>	Argonne National Laboratory
	<b>FY2019 Round 1</b>		
	<b>Framatome USA</b> Lynchburg, VA	<a href="#">Advanced Fuel Stability Analysis Using High-Fidelity Large-Scale Computational Fluid Dynamic Simulations</a>	Argonne National Laboratory

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	<b>GE-Hitachi</b> Wilmington, NC	<a href="#">Enabling System Technologies to Improve the Economics and Performance of Existing LWRs and Advanced BWR Plants: Improving Off-gas System Performance</a>	Idaho National Laboratory Argonne National Laboratory
	<b>Kairos Power</b> Alameda, CA	<a href="#">Chemical Method Development for Quantifying Oxygen in Beryllium Salt</a>	Argonne National Laboratory Oak Ridge National Laboratory
	<b>FY2018 Round 3</b>		
	<b>Eastman</b> Kingsport, TN	<a href="#">Integrated Nuclear Hybrid Energy System</a>	Idaho National Laboratory Oak Ridge National Laboratory
	<b>Elysium Industries USA</b> Boston, MA	<a href="#">Assessing Fuel Cycle Options for Elysium Molten Chloride Salt Fast Reactor from Spent Nuclear Fuel, Plutonium, and Depleted Uranium</a>	Argonne National Laboratory
	<b>Exelon Corporation</b> Kennet Square, PA	<a href="#">Plasma Separation Process Feasibility Study for the Commercial Enrichment of Gadolinium-157</a>	Oak Ridge National Laboratory
	<b>NexDefense Inc.</b> Atlanta, GA	<a href="#">NexDefense - Nuclear Cybersecurity Initiative</a>	Oak Ridge National Laboratory
	<b>Westinghouse Electric Co.</b> Cranberry Township, PA	<a href="#">Development and Testing of Alumina-forming Austenitic Stainless Steels for Lead Fast Reactor Application</a>	Oak Ridge National Laboratory
	<b>FY2018 Round 2</b>		
	<b>ThorCon</b> Stevenson, WA	<a href="#">Quantify Sodium Fluoride/Beryllium Fluoride Salt Properties for Liquid Fueled Fluoride Molten Salt Reactors</a>	Argonne National Laboratory
	<b>*Yellowstone Energy</b> Knoxville, TN	<a href="#">Characterization of the Radiation Stability of Molten Nitrate/Nitrite Salts for use as Heat Transfer Fluids in Nuclear Reactor Power Plant</a>	Sandia National Laboratory
	<b>FY2018 Round 1</b>		
	<b>Oklo Inc.</b> Sunnyvale, CA	<a href="#">Accelerate Development of Industry-Relevant Features in Modern Simulation Tools</a>	Argonne National Laboratory Idaho National Laboratory
	<b>*Terrestrial Energy USA</b> New York, NY	<a href="#">Advancement of Instrumentation to Monitor IMSR® Core Temperature and Power Level</a>	Oak Ridge National Laboratory

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	<b>ThorCon Stevenson, WA</b>	<a href="#">Electroanalytical Sensors for Liquid Fueled Fluoride Molten Salt Reactor</a>	Argonne National Laboratory
	<b>Urbix Resources Mesa, AZ</b>	<a href="#">Nuclear Grade Graphite Powder Feedstock Development</a>	Oak Ridge National Laboratory
	<b>Vega Wave Systems, Inc. West Chicago, IL</b>	<a href="#">Radiation Testing for Nuclear Inspection Systems</a>	Argonne National Laboratory
	<b>FY2017</b>		
	<b>AMS Corp. Knoxville, TN</b>	<a href="#">Radiation Aging of Nuclear Power Plant Components</a>	Oak Ridge National Laboratory
	<b>Columbia Basin Consulting Group LLC Kennewick, WA</b>	<a href="#">Methodology for Meeting Containment System Principal Design Criteria for Heavy Metal Fast Reactor Systems</a>	Pacific Northwest National Laboratory
	<b>DYNAC Systems LLC Del Mar, CA</b>	<a href="#">Dynamic Natural Convection System</a>	Idaho National Laboratory
	<b>Elysium Industries Clifton Park, NY</b>	<a href="#">Synthesis of Molten Chloride Salt Fast Reactor Fuel Salt from Spent Nuclear Fuel</a>	Idaho National Laboratory Argonne National Laboratory
	<b>Fauske &amp; Associates LLC Burr Ridge, IL</b>	<a href="#">Development of an Integrated Mechanistic Source Term Assessment Capability for Lead- and Sodium-Cooled Fast Reactors</a>	Argonne National Laboratory
	<b>GSE Systems Inc. Sykesville, MD</b>	<a href="#">Human Factors Engineering for the Move to Digital Control Systems – Improved Strategies for Operations</a>	Idaho National Laboratory
	<b>Kairos Power LLC Oakland, CA</b>	<a href="#">NEAMS [Nuclear Energy Advanced Modeling and Simulation] Thermal-Fluids Test Stand for Fluoride-Salt-Cooled, High- Temperature Reactor Development</a>	Argonne National Laboratory Idaho National Laboratory
	<b>MicroNuclear LLC Franklin, TN</b>	<a href="#">Development of the Microscale Nuclear Battery Reactor System</a>	Idaho National Laboratory
	<b>Muons Inc. Batavia, IL</b>	<a href="#">Conversion of Light Water Reactor Spent Nuclear fuel to Fluoride Salt Fuel</a>	Oak Ridge National Laboratory



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	<b>NuVision Engineering, Inc.</b> Pittsburgh, PA	<a href="#">Evaluation of Power Fluidic Pumping Technology for Molten Salt Reactor Applications</a>	Oak Ridge National Laboratory
	<b>Oklo Inc.</b> Sunnyvale, CA	<a href="#">Risk-Informed Mechanistic Source Term Calculations for a Compact Fast Reactor</a>	Sandia National Laboratories Argonne National Laboratory
	<b>SMR Inventec LLC</b> Camden, NJ	<a href="#">Small Modular Reactor-160 Primary Flow Stability</a>	Oak Ridge National Laboratory
	<b>Terrestrial Energy USA Ltd.</b> New York, NY	<a href="#">IMSR® [Integral Molten Salt Reactor] Fuel Salt Property Confirmation: Thermal Conductivity and Viscosity</a>	Argonne National Laboratory
	<b>Transatomic Power Corporation</b> Cambridge, MA	<a href="#">Fuel Salt Characterization</a>	Argonne National Laboratory
<b>FY2016 (Abstracts not available for this year)</b>			
	<b>BGTL, LLC</b> Laramie, WY	High Efficiency and Low Cost Thermal Energy Storage System	Argonne National Laboratory
	<b>Ceramic Tubular Products</b> Rockville, MD	Robust Silicon Carbide Cladding for LWR Application - Corrosion and Irradiation Proof Test of Low-Cost Innovations in MIT Research Reactor	Massachusetts Institute of Technology
	<b>Columbia Basin Consulting Group, LLC</b> Kennewick, WA	Lead-Bismuth Small Modular Reactor (SMR) Licensing Development	Pacific Northwest National Laboratory
	<b>CompRex LLC</b> De Pere, WI	High Efficiency Heat Exchanger for High Temperature and High Pressure Applications	Argonne National Laboratory
	<b>Create LLC</b> Hanover, NH	Investigation of Materials for Continuous Casting of Metallic Nuclear Fuel	Idaho National Laboratory
	<b>Oklo Inc.</b> Sunnyvale, CA	Legacy Metal Fuel Data Exploration for Commercial Scale- Up	Argonne National Laboratory Idaho National Laboratory
	<b>Terrestrial Energy USA Ltd.</b> New York, NY	Verification of Molten-Salt Properties at High Temperatures	Argonne National Laboratory

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	<b>Transatomic Power Corporation Cambridge, MA</b>	Optimization and Assessment of the Neutronics and Fuel Cycle Performance of the Transatomic Power Molten Salt Reactor Design	Oak Ridge National Laboratory
<a href="#">FY2016 Nuclear Energy Voucher Pilot Program Summary Report</a>			

(\*) Indicates voucher was canceled.