

**GAIN ANNOUNCEMENT
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GAIN announces second round FY 2022 Nuclear Energy Voucher recipients

The Gateway for Accelerated Innovation in Nuclear (GAIN) announced today that four nuclear companies will be provided a GAIN Nuclear Energy (NE) Voucher to accelerate the innovation and application of advanced nuclear technologies. NE vouchers provide advanced nuclear technology innovators with access to the extensive nuclear research capabilities and expertise available across the U.S. Department of Energy (DOE) national laboratory complex. This is the second award for FY 2022.

The businesses selected to receive a GAIN nuclear energy voucher for Round 2 FY 2022 are:

GAIN 2022 2nd Round NE Voucher Recipient	Awarded Proposal	Partner Facility
Elysium Industries USA New York, NY	<u>Advanced Functional Membrane Testing for Noble Gas Management in a Molten Salt Reactor</u>	Pacific Northwest National Laboratory
Kairos Power Alameda, CA	<u>Deployment of Advanced Electroanalytical Sensors in the Kairos Power Engineering Test Unit (ETU)</u>	Argonne National Laboratory
Terrestrial Energy USA, Inc. Charlotte, NC	<u>Investigation of the Structural Integrity and Corrosion Resistance of Surface Treatment on Alloy-709 in a Molten Fluoride Salt Environment</u>	Idaho National Laboratory
Ultra Safe Nuclear Corp. Seattle, WA	<u>Support for Analysis of USNC Micro Modular Reactor Fuel Performance</u>	Idaho National Laboratory

GAIN NE voucher recipients do not receive direct financial awards. The GAIN nuclear energy vouchers provide access to national laboratory capabilities at no cost to the voucher recipients. All awardees are responsible for a minimum 20 percent cost share, which could be an in-kind contribution.

The GAIN NE Voucher Program accepts applications on innovation that supports production and utilization of nuclear energy (e.g., for generation of electricity, supply of process heat, etc.) in the following general topic areas:

- Analysis and evaluation of, and for, advanced reactor concepts and associated designs, including development of R&D based licensing technical requirements or regulatory strategies
- Structural material and component development, testing and qualification
- Advanced nuclear fuel development, fabrication and testing (includes fuel materials and cladding)
- Development, testing, and qualification of instrumentation, controls, and sensor technologies that are hardened for harsh environments and secured against cyber intrusion
- Modeling and simulation, high-performance computing, codes and methods
- Technical assistance from subject matter experts and/or data/information to support technology development and/or confirm key technical or licensing issues

Further information on the GAIN nuclear energy voucher program as well as current and all past awards may be found [here](#).

The U.S. Department of Energy Office of Nuclear Energy (DOE-NE) established GAIN to provide the nuclear community with 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. Through GAIN, DOE is making its state-of-the-art and continuously improving RD&D infrastructure available to stakeholders to achieve faster and cost-effective development of innovative nuclear energy technologies toward commercial readiness.

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