

**GAIN ANNOUNCEMENT
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GAIN announces first round FY 2024 Nuclear Energy Voucher recipients

The Gateway for Accelerated Innovation in Nuclear (GAIN) announced today that seven 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 first award for FY 2024.

The businesses selected to receive a GAIN nuclear energy voucher for Round 1 FY 2024 are:

GAIN 2024 1st Round NE Voucher Recipients	Awarded Proposal	Partner Facility
ARC Clean Technology, Inc. Washington, D.C.	<u>Improvements to Passive Heat Removal Systems in SAS4A/SASSYS-1</u>	Argonne National Laboratory
Aalo Atomics Austin, TX	<u>Independent Code-to-Code Verification of Aalo-1 Fuel and Core Performance</u>	Idaho National Laboratory
Boston Atomics Boston, MA	<u>Horizontal Refueling and Remote Handling Design Review</u>	Oak Ridge National Laboratory
Energy Northwest Richland, WA	<u>Future Climate Projections for Dry and Wet Condenser Cooling Options</u>	Argonne National Laboratory

GAIN 2024 1st Round NE Voucher Recipients	Awarded Proposal	Partner Facility
Global Nuclear Fuels – Americas Wilmington, NC	<u>Confirm Product Quality Achieved by Using Electroreduction Technology to Convert GNF Provided Uranium Oxides to Metal</u>	Argonne National Laboratory
SHINE Technologies Janesville, WI	<u>Safeguards Technologies and Assessments to Support Efficient UNF Recycling in the U.S.</u>	Argonne National Laboratory Sandia National Laboratory
Westinghouse Electric Co. LLC Cranberry Township, PA	<u>Ceramic Matrix Composites (CMC) Irradiation Testing</u>	Oak Ridge National Laboratory

GAIN NE voucher recipients do not receive direct financial awards. Vouchers provide funding to DOE laboratories to help businesses overcome critical technological and commercialization challenges. 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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