



Idaho National Laboratory Overview

Idaho Falls, ID

INL is the nation's lead laboratory for nuclear energy research, development, demonstration, and deployment. Its nuclear research and testing facilities are critical to the United States' ability to advance nuclear technology and to strengthen the nation's energy security, economic competitiveness, and national security. Through a unique combination of world-class facilities, specialized expertise, and integrated research capabilities, INL enables the advancement and deployment of innovative nuclear technologies that support a resilient, reliable, and sustainable energy future for the United States.

Launch Pad - INL

The Launch Pad INL covers approximately 2,000-acres, which will be divided into several plots for

private nuclear technology developers, including those working on advanced reactors, fuel fabrication, recycling, enrichment, and other advanced nuclear technology deployment at INL.

Overall benefits:

- Land is suitable for different nuclear applications and regulatory deployment structure.
- Accelerated identification, allocation, and assessment of sites.
- Proximity to existing utilities and services at INL.
- Direct access to specialized nuclear expertise, as needed.
- Assistance in navigating the complexities of nuclear regulations.
- A flexible contract framework with DOE and/or Battelle Energy Alliance, LLC (BEA), DOE's management and operating (M&O) contractor for INL.

Facilities

Nuclear Energy Facilities

- Materials and Fuels Complex (MFC)
 - Advanced Fuel Fabrication (AFF)
 - Analytical Research Laboratories (ARL)
 - Aurora Fuel Fabrication Facility (A3F)
 - Electron Microscopy Laboratory (EML)
 - Engineering Development Laboratory (EDL)
 - Experimental Fuels Fabrication (EFF)
 - Fuels and Applied Science Building (FASB)
 - Fuel Conditioning Facility (FCF)
 - Hot Fuels Examination Facility (HFEF)
 - Irradiated Materials Characterization Laboratory (IMCL)

- Radiochemistry Laboratory (RCL)
- Research Collaboration Building (RCB)
- Sample Preparation Laboratory (SPL)
- Space and Security Power Systems Facility (SSPSF)
- Transient Reactor Test Facility (TREAT)
- Zero Power Physics Reactor Facility (ZPPR)

- Advanced Test Reactor (ATR)
- Collaborative Computing Center
- Aqueous Separations Laboratories
- Measurement Science Laboratories (MSL)
- Pyrochemistry Laboratories
- Safety and Tritium Applied Research Facility (STAR)

Integrated Energy Facilities

- Battery Test Center
- Biomass Feedstock National User Facility (BFNUF)
- Dynamic Energy Transport and Integration Laboratory
- Electrochemical Processing and Electrocatalysis Lab
- Energy Innovation Laboratory
- Energy Systems Laboratory
- Power and Energy Real-Time Laboratory
- Water Security Test Bed

National Security Facilities

- Control Systems and Energy Labs
- Cybercore Integration Center
- Electric Grid Test Bed
- Explosives Test Range
- National Security Test Range
- Radiological Response Test Ranges
- Strategic Manufacturing Capability (SMC)
- Unmanned Aerial Systems Runway
- Wireless Test Bed

Capabilities

Nuclear Energy Facilities Capabilities

- Advanced Reactor Demonstration Test Beds
- Nuclear Fuel Fabrication
- Structural Nuclear Material Fabrication, Testing and Analysis
- Fresh Fuel Characterization
- Irradiation
- Post-Irradiation Examination and Characterization
- Space Nuclear Power Isotope Technologies
- Irradiation Testing

Integrated Energy Facilities Capabilities

- Advanced Materials and Manufacturing
- Bioenergy and Waste Feedstocks
- Decision Sciences
- Energy Feedstocks and Pre-processing
- Geothermal Energy
- Systems Analysis and design sciences

- Advanced transportation
- Critical Materials
- Distributed Energy Systems
- Deployable infrastructure systems
- Energy economics
- Environmental biology
- Mechanical Material Processing & Deconstruction
- Radioactive Material Disposal
- Robotics and Autonomous Systems
- Utility and grid capabilities.

National Security Facilities Capabilities

- Operational Technology Cybersecurity
- Electric Power Grid
- Wireless Communications
- Unmanned Aerial Systems
- Nuclear Safety and Radiological Response
- Breaching and explosives
- Materials Science and Manufacturing
- Materials research and armor development
- Advanced modeling and simulation



Scan here for additional information

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About NRIC: The U.S. Department of Energy's National Reactor Innovation Center is enhancing national laboratory infrastructure and capabilities by engaging with regulators and stakeholders to identify and fill gaps that hinder advanced nuclear energy. This program is led by Idaho National Laboratory.