

Hope Morrow

April 2023

Labor Economist- Workforce & Economic Development

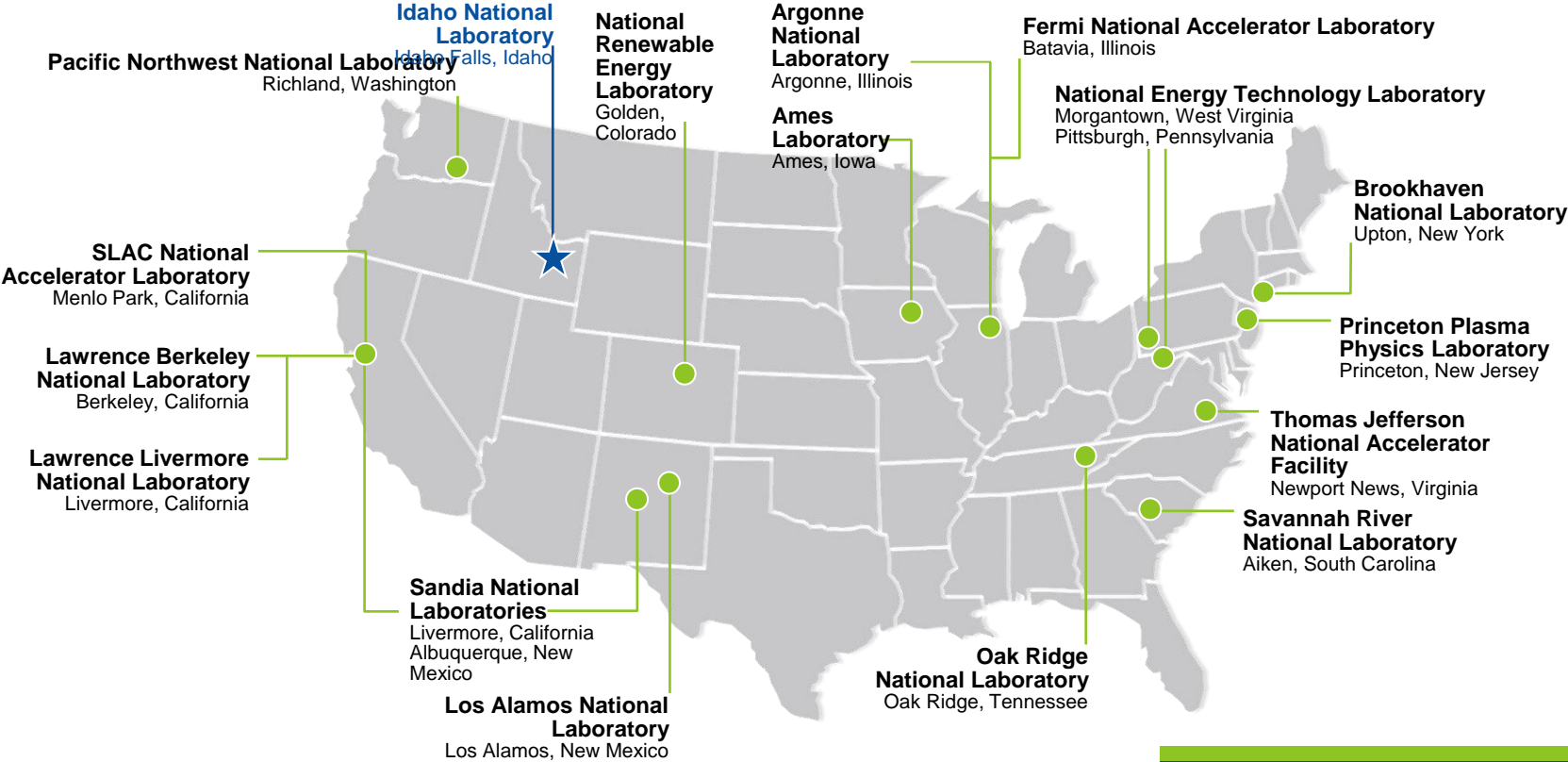


Idaho National Laboratory – Creating a Secure, Resilient, Clean Energy Future

Battelle Energy Alliance manages INL for the
U.S. Department of Energy's Office of Nuclear Energy



DOE National Laboratories



INL Campus

\$1,630 M FY22 Total Operating Cost

5,700+ Employees

569,178 Acres

890 Square Miles

- Primary INL Campus Important to NE and other Mission Accomplishment
- Presently EM Owned and Operated
- Supporting INL Multiprogram Missions



4 Operating reactors

12 Hazard Category II & III non-reactor facilities/activities

50 Radiological facilities/activities

17.5 Miles railroad for shipping nuclear fuel

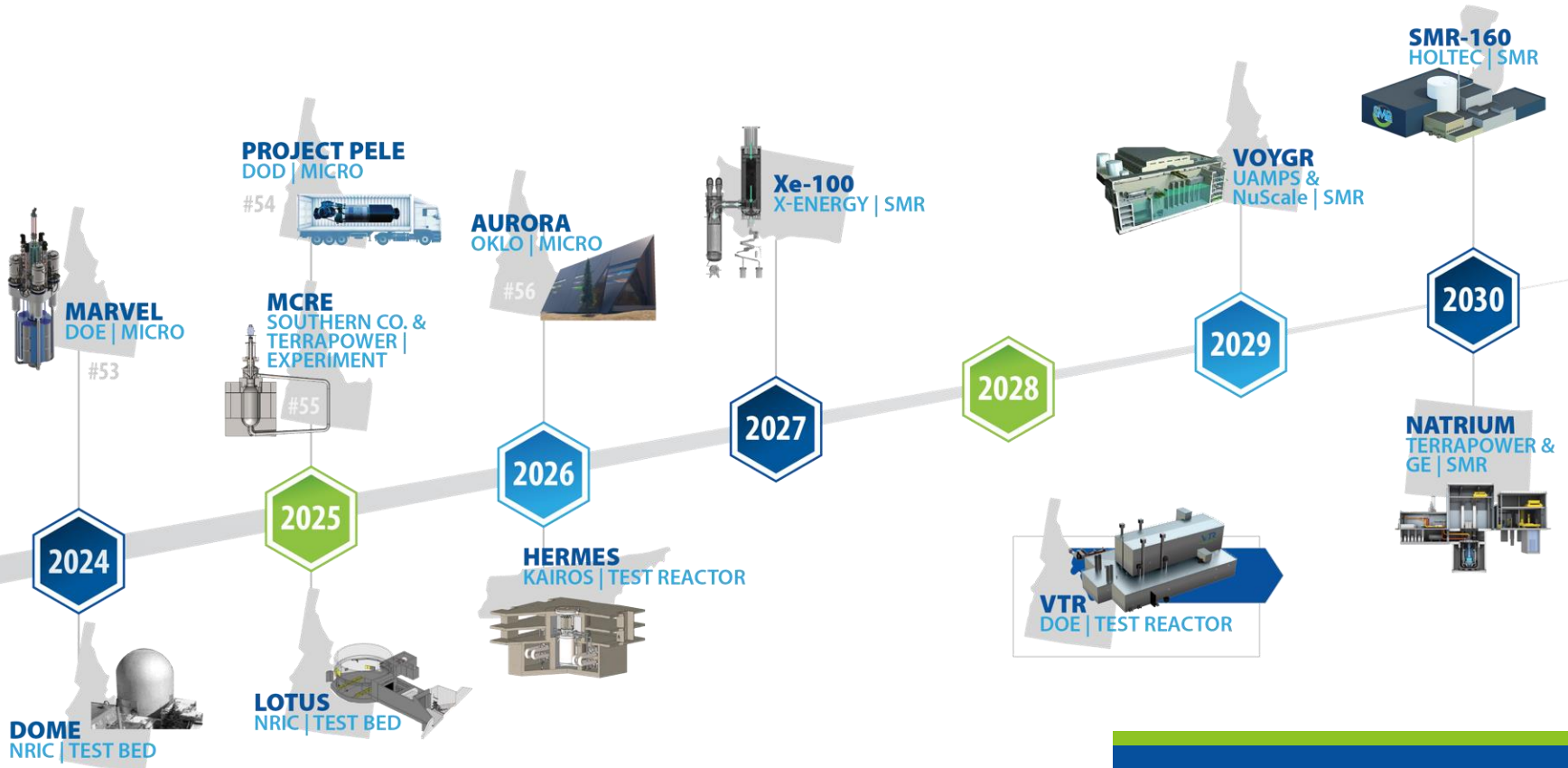
44 Miles primary roads (125 miles total)

9 Substations with interfaces to two power providers

128 Miles high-voltage transmission lines

3 Fire Stations

Accelerating advanced reactor demonstration & deployment



Ambitious goals to mitigate climate change: Achieving “net-zero” at INL by 2031

- President Biden has set a goal of achieving net-zero greenhouse gas emissions by no later than 2050 and limiting global warming to 1.5 degrees Celsius
- Steps in reaching this goal require the U.S. to achieve
 - 100 percent carbon pollution-free electricity by 2035
 - Net-zero economy wide by 2050
- Must be achieved while...
 - Investing in infrastructure
 - Fueling an economic recovery – job creation
 - Advancing environmental justice
 - Bolstering domestic supply chains

What is “net-zero”?

“Net-zero” refers to a target of completely negating the amount of greenhouse gases produced by human activity, to be achieved by reducing emissions and implementing methods of absorbing carbon dioxide from the atmosphere



Annual Projected Openings

2,853 *Total Anticipated Openings*

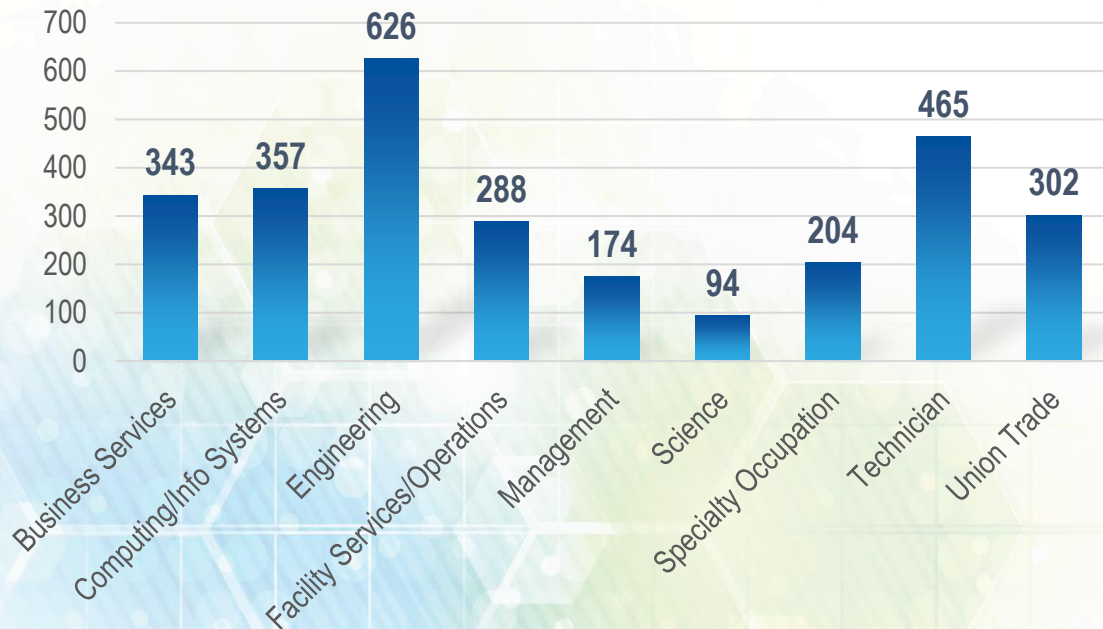
Openings	FY22	FY23	FY24	FY25	FY26	Grand Total
New Position	456	381	237	177	187	1444
Replacement	441	265	272	262	175	1409
Grand Total	897	646	509	439	362	2853

These openings include research and enablement positions depicting workforce needs that range vastly in *educational levels, experience* and *background*.



Projected Openings by Work Family

Total Anticipated Openings Through FY26



Top INL Nuclear Related Jobs

Occupation- Engineering

Nuclear Research Facility Engineer

Nuclear Reactor Engineer

Mechanical Engineer

Chemical Engineer

Electrical Engineer

Occupation- Technician

Nuclear Facility Operator

Health Physics Technician

Nuclear Reactor Operator

Quality Inspection Technician

Systems Operators & Technicians

Grid Technicians & Installers

Occupation- Others

Installation & Repair

Security Officers

Laborer

Project Managers

Welders

Machinists

Data Analysts

Cyber Risk Analysts



Learn. Do. Earn. In Nuclear.

An interactive and informative interface producing a picture of Idaho's nuclear industry from a workforce perspective. Occupation information, education pathways, and local employers come together with real time data, programs, and job openings. The pipeline to Idaho's nuclear industry starts here!

PRODUCT
SAFETY
ENGINEER

INFORMATION
SECURITY ANALYST

ENVIRONMENTAL
COMPLIANCE
INSPECTORS

GENERAL AND
OPERATIONS
MANAGERS

MATERIALS
ENGINEER

NUCLEAR
ENGINEER

MATERIALS
SCIENTIST

OTHER NUCLEAR
RELATED
OCCUPATIONS

PRODUCTION,
PLANNING, AND
EXPEDITING
CLERKS

RADIOLOGICAL
TECHNOLOGIST

NUCLEAR
TECHNICIANS

MACHINERY
MAINTENANCE
WORKERS

ADMINISTRATIVE
SERVICES
MANAGERS

NUCLEAR
POWER
REACTOR
OPERATORS

ELECTROMECHANICAL
ENGINEERING

Opportunities for Students



Internships

- INL's internship programs hire over 500 students annually.
- Paid opportunities are available in a wide range of STEM and other fields for high school, undergraduate and graduate students.



INL Graduate Fellowships

- Work at INL while pursuing an advanced degree, including salary and tuition coverage.
- The INL Graduate Fellowship program helps identify and recruit exceptional talent in research areas aligned with INL's strategic agenda.



Postdoctoral Appointments

- Postdocs are provided a mentored research experience and the highest quality of training to prepare the participants for transition to research independence.
- INL has multiple Distinguished Postdoctoral Appointments for outstanding candidates.



Office of Science Programs

- Externally-funded opportunities are available through Workforce Development for Teachers and Scientists (WDTS), including the Science Undergraduate Laboratory Internships (SULI), Office of Science Graduate Student Research (SCGSR) programs, and the Community College Internship programs (CCI).

Learn more about Student Opportunities at [Careers and Job Openings \(inl.gov\)](https://www.inl.gov/careers)

Opportunities for Faculty



Academic Visitors/Visiting Researchers

- INL's academic visitors program promotes collaboration and interaction between lab researchers – and research programs – and university staff. This program allows university personnel, with no funding or contracts with INL, access to security plans and badging needed to access INL facilities. Opportunities include guest lectures, research collaborations, and more.



Joint Appointments

- A joint appointment is an arrangement in which a researcher has formal ties to both INL and a university. These partnerships enhance collaboration, as joint appointees conduct research and development at both home and host institutions.
- Researchers benefit by having access to INL employees, facilities and resources, while working in a university research setting that fosters creativity, entrepreneurship, and access to a broad academic research network.



Office of Science Programs

- Through the DOE Office of Science programs for Workforce Development for Teachers and Scientists (WDTS), INL participates in the Visiting Faculty Program (VFP). This program seeks to increase the research competitiveness of faculty members and their students at institutions historically underrepresented in the research community in order to expand the workforce vital to the DOE mission areas.

Learn more about partnering with INL at [Partnering with INL - INL](#)



Idaho National Laboratory

Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy. INL is the nation's center for nuclear energy research and development, and also performs research in each of DOE's strategic goal areas: energy, national security, science and the environment.