What ENERGIZES You?

What is CAES?

The Center for Advanced Energy Studies (CAES) is a research, education, and innovation consortium among Idaho National Laboratory (INL) and the public research universities of Idaho and Wyoming: Boise State University, Idaho State University, University of Idaho, and University of Wyoming.

CAES is committed to conducting cutting-edge energy research, educating the next generation of scientists and engineers, and partnering with industry to advance competitiveness. CAES was conceived more than a decade ago as a catalyst, formed to activate the world-class research assets at INL along with the students and faculty at the universities. By leveraging these collective capabilities and working together, CAES is the collaboration that inspires innovation and impact.

CAES is more than its state-of-the-art headquarters in Idaho Falls. Combined, the five CAES entities represent nearly 100 laboratories and engineering facilities, representing more than 100 laboratories and nearly $2 billion in annual research funding.

CAES research is focused on five areas: nuclear energy; energy-water nexus; cybersecurity; advanced manufacturing; innovative energy systems; energy policy; and computing, data, and visualization.

CAES Center for Advanced Energy Studies

FOCUS AREAS

CAES is best equipped to cultivate and mobilize people, resources, and intellect to create real impact in these focus areas, which represent critical energy challenges for the nation and world.

- Nuclear Energy
- Energy-Water Nexus
- Cybersecurity
- Advanced Manufacturing
- Innovative Energy Systems
- Energy Policy
- Computing, Data, & Visualization

CAES LABS

1. Microscopy and Characterization Suite (MaCS)
2. Advanced Materials Laboratory
3. Fluids Laboratory
4. Radiochemistry Laboratory
5. Analytical Instrumentation Laboratory
6. Analytical Chemistry Laboratory
7. Catalysis and Transient Kinetics Laboratory
8. Applied Visualization Laboratory

CAES Headquarters

CAES' headquarters in Idaho Falls is in proximity to both INL's in-town facilities and near University Place, which serves as the Idaho Falls campus for Idaho State University and University of Idaho. The CAES HQ is a 55,000 square-foot building that meets LEED Gold standards and boasts eight laboratories with state-of-the-art equipment, along with offices and cubicles for CAES personnel, students, faculty, and INL researchers – all five CAES entities are represented.

The facility is owned by the state of Idaho and maintained by Idaho State University. Research is also conducted at each of the member institutions, giving CAES scientists, industry partners, and others access to a wide range of equipment, capabilities, and infrastructure.

Industry

CAES engages industry to understand technology challenges and shape research-driven solutions with a pathway to commercialization. The CAES industry affiliate program serves national needs yet focuses on regional businesses to drive economic growth. The program facilitates industry access to CAES' collective R&D capabilities (people, partners, facilities) that can strengthen regional and national industry competitiveness. Industrial partners gain a window into advanced energy studies, research programs, and the CAES focus areas.

Affiliated Centers

CAES has several collaborative centers that serve as implementation partners, focusing resources in critical areas while partnering with CAES researchers and staff.

- Autonomous Systems Center of Excellence
- Nuclear Science User Facilities
- Energy Policy Institute
- CAES Energy Efficiency Research Institute
- Center for Space Nuclear Research

FOR MORE INFO

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