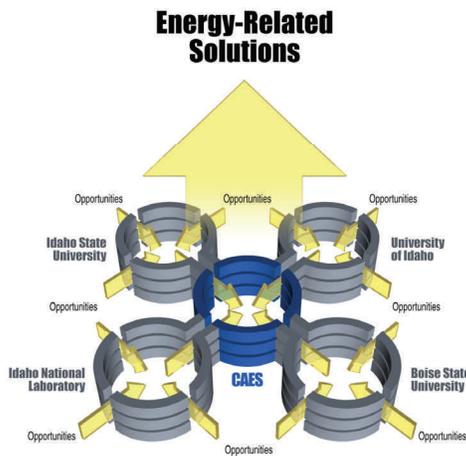


Collaboration Opportunities

Harold Blackman, Director

The Center for Advanced Energy Studies (CAES) and the Idaho National Laboratory (INL) are rich in collaboration opportunities for universities, private industry, and government agencies. These collaborations focus on three outcomes: R&D that produces innovative ideas and solutions to the nation's energy challenges; expanded energy-related research and educational capabilities for Idaho Universities; and, an increased number of graduates in energy-related disciplines.



CAES and the INL

The INL and CAES foster collaborations that both complement educational and research efforts and provide additional valuable learning experiences in world-class facilities.

Idaho National Laboratory

The Idaho National Laboratory (INL), a multi-program national laboratory sponsored by the U.S. Department of Energy, performs cutting-edge research for numerous public, private and international customers. The INL mission is to ensure the nation's energy security with safe, competitive and sustainable energy systems and unique national and homeland security capabilities

In operation for 60 years, the INL is one of the largest of the national labs, occupying an 890 square mile region in southeastern Idaho. The Lab is operated for the U.S. Department of Energy by the Battelle Energy Alliance

(BEA). BEA is a division of the Battelle Memorial Institute, a charitable trust organized as a non-profit corporation that develops and commercializes technology and manages laboratories for customers.

The INL sustains three primary activities: nuclear energy research, development and demonstration; national and homeland security technology development and testing; and, science and technology research.

Center for Advanced Energy Studies

The Center for Advanced Energy Studies (CAES) operates as a public/private partnership comprised of Idaho National Laboratory, Boise State University, Idaho State University, and the University of Idaho. CAES integrates resources, capabilities and expertise to create new research capabilities, expand researcher-to-researcher collaborations, and enhance energy-related educational opportunities. R&D initiative areas include advanced materials analysis and testing; the nuclear fuel cycle; the environmentally sound use and distribution of fossil fuels; the economical production and delivery of renewable energy; and, critical energy infrastructure protection. In energy policy, the CAES/BSU Energy Policy Institute serves as an "honest broker" by providing high-level energy policy analysis and such third-party information as public opinion surveys.

CAES R&D programs are housed in a new 55,000 sq. ft. LEED® Gold research facility in Idaho Falls, ID.

What Programs are Available?

Through CAES-administered programs, Idaho university collaborators received about \$4M in FY 08. CAES anticipates receiving \$8.M in FY 09.

Laboratory Directed R&D Program

The Laboratory Directed Research and Development (LDRD) program invests in investigator-originated, longer-term, higher-risk and potentially higher-payoff research activities that stretch the capabilities of the laboratory. The LDRD program supports INL strategic objectives and funds basic and applied research and development projects focusing on the exploration of novel and innovative concepts, with a portion targeted on the CAES mission and R&D initiatives.

Program Development Funds

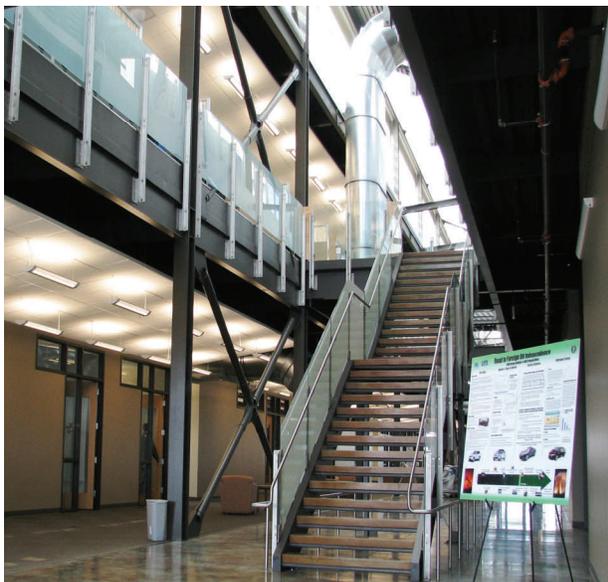
INL invests Program Development Funds (PDF) in the pursuit of new business for the INL and CAES. These funds can be used by CAES researchers and university collaborators for costs associated with proposal development, travel to customers or potential customers, activities specifically directed at the development of new business, contact and capture plan development and implementation, concept paper development, and market analysis.

Joint Appointments

The four CAES partners have agreed to strengthen their respective institutions through a joint appointment program that recruits and shares outstanding scientists. This program provides the administrative structures and procedures necessary to establish joint appointment positions that afford status, stature, and access across institutional boundaries.

CAES Affiliate Program

The CAES Affiliate Program recognizes the active relationships that link university faculty, researchers, and post docs with and within CAES partner institutions. The Affiliate Program expands opportunities and enhances professional interactions. CAES affiliates engage in CAES project development, funding proposal preparation, CAES sponsored research projects, graduate student development and education, and policy conceptualization.



Student Internship Program

The INL internship programs are designed for undergraduate and graduate students and faculty. Graduate fellowships offer full- or part-time research experience at the INL or on a college or university campus. The undergraduate summer internship program offers 10 to 16 weeks of full-time summer INL research experience.

Faculty Fellowship Program

Faculty fellowships offer full- or part-time INL research experience on a college or university campus for faculty who collaborate with INL principal investigators. Fellowship selections are based on qualifications, quality research proposals, and funding availability. Fellowship recipients must be full-time college or university faculty with instructional or research responsibilities.

Postgraduate Internship Programs

The Postgraduate Internship Program provides recent college and university graduates with research experience through involvement with INL mission-related projects. Graduates who have completed all institutional requirements for a master's or doctoral degree within the past 12 months from an accredited college or university may apply to work with highly experienced INL scientists, researchers and administrators.

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