

How Can You PLUG Into CAES

Center for Advanced Energy Studies is a research, education, and innovation consortium that brings together students and faculty from the public research universities in Idaho and Wyoming and Idaho National Laboratory researchers to conduct cutting-edge energy research, educate the next generation of scientists, and collaborate with industry to advance competitiveness. www.caesenergy.org

Public

- Director's Colloquium
- CAES Currents
- CAES Energy Efficiency Research Institute (CEERI)
- CAES Technical Assistance Program (C-TAP)
- CAES Tours
- Energy Policy Institute (EPI)

University Faculty and INL Researchers

- CAES Summer Visiting Faculty Program
- CAES Fellows
- Roundtables
- Seed Grants (ISU)
- Joint Appointment
- Baby Shark Tank

Students

- Internships
- INL Graduate Fellowships
- My Amazing Future (K12)
- Baby Shark Tank

University Faculty, Students, and INL Researchers

- Around the World Tours
- Working Groups
- Workshops
- CO*STAR
- CAES Collaboration Fund
- CAES Currents
- Codebreaker Seminar Series
- Idaho Science and Technology Policy Fellowship (ISTPF)
- Proposal Writing Support
- Student-Researcher-Faculty Matching for:
 - Internships
 - Postdocs
 - Co-ops
 - Mentoring
 - Fellowships
 - Thesis Committees
- Baby Shark Tank

For more information about these, and other programs, contact your CAES Associate Director

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20-50077_R3



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Around the World Tours: These annual tours allow faculty, students, and researchers the opportunity to visit CAES consortium locations, tour facilities, and make connections with other consortium members.

Baby Shark Tank: Also known as the CAES Annual Pitch Event (CAPE), this competition is designed to transfer the innovation and research that thrive at CAES from the laboratory to the commercial sector. The competition is open to everyone in the CAES community – students and faculty at the public research universities of Idaho and Wyoming, and INL researchers – and to all levels of ideas, from early-stage concepts to investment-ready research. Competitors learn how to effectively pitch their research, how to help others understand an idea, and how to build interest in it, with prize money at stake.

CAES Collaboration Fund: The annual collaboration fund is designed to provide funding to selected proposals by Idaho National Laboratory researchers that would enhance collaborative relationships with CAES universities, in line with the CAES strategic plan. The CAES leadership team selects the winning proposals.

CAES Currents: An engaging panel discussion held in response to global events, CAES Currents provides a forum for students, researchers, and the public to gain insight into the event, discover opportunities, and increase dialogue among CAES affiliates leading to further collaboration and education. The panel is comprised of experts from the CAES entities who boast experience relevant to the topic. Open to the public, audience participation is key.

CAES Energy Efficiency Research Institute (CEERI): The mission of CEERI is to promote the effective and efficient use of energy resource through cutting-edge research, effective outreach, and accessible education.

CAES Fellows: Launched in early 2020, this initiative provides recognition, resources, and opportunities to a diverse cohort of INL researchers, staff, and academic faculty who are engaged and recognized leaders in the CAES community, active in a CAES focus area, and share the collaborative spirit that embodies CAES. The CAES Fellows designation is a two-year appointment that is designed to drive further collaboration.

CAES Summer Visiting Faculty Program: Offered annually, this program fosters collaboration between university faculty and INL researchers with the goal of developing a joint-funded research proposal of value to both parties. The approach is intended to help build and sustain a research collaboration ecosystem, which is a critical outcome of the refreshed [CAES Strategy](#), by building a platform for capability and expertise matchmaking, creating new short- and long-term collaborative opportunities, and providing proposal-writing resources.

CAES Technical Assistance Program (C-TAP): C-TAP is a business portal that provides fast, innovative solutions to complex technical problems facing local and regional businesses. A key component is the engagement of students, who work closely with faculty and staff in the problem-solving process, gaining real-world work experience.

Codebreaker Seminar Series: This monthly seminar provides a forum for students and researchers to address their work, communicate opportunities and challenges to a receptive audience, and increase dialogue among CAES affiliates leading to further interdisciplinary collaborations and new ground-breaking research. *Codebreaker* is an engaging presentation and Q&A forum that covers a range of topics in energy science, engineering, business, and policy.

CO*STAR: This annual training is designed to help participants learn practices that are proven to help develop new ideas, create winning proposals, and ensure research being conducted at the CAES entities has a tangible, positive impact in alignment with the innovation pillar outlined in the [CAES Strategy](#).

Director's Colloquium: The annual CAES Director's Colloquium is designed to promote open dialogue between world-class speakers and the public in a community setting that provides insight into research activities, current events, best practices, and career and life journeys.

Energy Policy Institute (EPI): EPI informs on all aspects of energy system change with timely and impactful analysis, advising, convening and neutral facilitation, as well as training to advance policy-relevant decision-making.

INL Internships: Growing the talent pipeline involves providing high school students, undergraduate, and graduate students paid internship opportunities to work on specific projects and apply science, technology, engineering and mathematics (STEM) education concepts in a real-world setting.

INL Graduate Fellowships: The INL Graduate Fellowship program, a collaboration between INL and universities, provides access to unique and state-of-the-art facilities and capabilities. INL is committed to integrating students with projects at the laboratory to fulfill their thesis research requirements.

Joint Appointments: The Joint Appointment program provides a unique opportunity for collaboration between university faculty and INL staff by bridging academic and government projects in a peer-to-peer group research environment.

My Amazing Future: Held annually, My Amazing Future is an INL program that offers eighth-grade young women a day long glimpse into potential careers in science, technology, engineering, and math (STEM). CAES hosts hands-on experiences in our laboratories.

Proposal Writing Support: The CAES team provides assistance to researchers - from identifying calls for proposals, interpreting expectations, writing the proposal, to submission. Coordination with your home institution is also available.

Roundtables: CAES roundtables are held throughout the year, organized by the CAES Associate Directors to envision research awards, which are defined as multi-institution, multi-investigator awards of \$2M to \$4M annually for a 4- to 5-year period of performance. The approach is to gather thought leaders from the CAES institutions for small group meetings at which attendees develop a white paper outlining a pitch to a federal partner for a workshop hosted by CAES. A successful roundtable results in justification for a center proposal to a federal funding agency. Topics of recent roundtables include Nuclear Energy, Cybersecurity, and Advanced Manufacturing.

Working Groups: These groups catalyze a community of researchers in each strategic focus area (Nuclear Energy; Energy-Water Nexus; Cybersecurity; Advanced Manufacturing; Innovative Energy Systems; Energy Policy; and Computing, Data, and Visualization), leading to new collaborations, external funding opportunities, and ultimate impact in research, education, and innovation for the CAES community. Note that working groups have access to funds to accelerate these outcomes. Email your CAES Associate Director to join a working group.

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