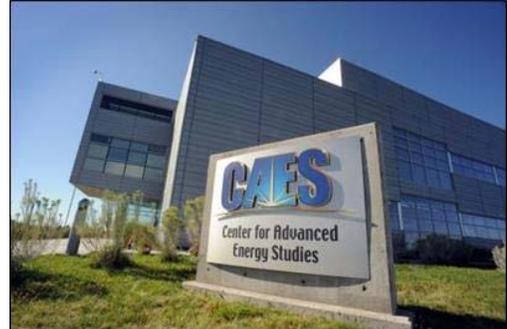


Nuclear Energy University Programs

Through collaborations fostered by the Center for Advanced Energy Studies¹, Idaho's universities (University of Idaho, Boise State University, and Idaho State University) and the Idaho National Laboratory (INL) are conducting research and educating the future work force that supports the nation's and world's increasing demand for affordable, safe, reliable, and environmentally sound nuclear energy. Support from the highly competitive U.S. Department of Energy (DOE) Nuclear Energy University Programs (NEUP) has enabled the revitalization of the universities' nuclear engineering, science, and related program research and educational programs. Over the past 5 years, Idaho universities have received \$18 million for 21 Research and Development projects, 7 infrastructure awards, 20 scholarships, and 3 fellowships (see table below). With this funding, Idaho's universities are engaged in science and engineering research leading to the development of new innovative technologies, providing creative solutions to current nuclear energy challenges and enabling future nuclear power development and deployment.



University of Idaho investigators have researched a variety of nuclear topics ranging from used nuclear fuel recycling and storage, intelligent control systems for next generation reactors, improving the service life of concrete, and the recovery of uranium resources from sea water. Continued and expanded support of the NEUP program will allow the University of Idaho and Idaho's other universities to continue to educate the next generation of nuclear professionals, support the mission of the INL, and address the nation's energy challenges.



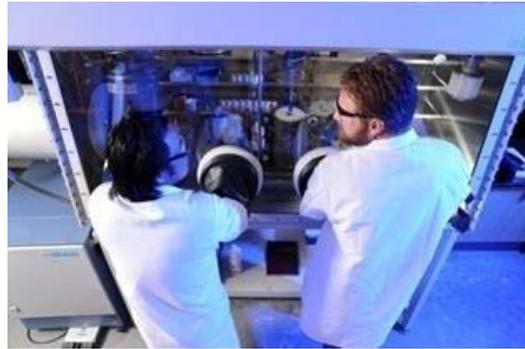
University Contributions to Nuclear Energy Research

The U.S. Department of Energy is committed to the robust participation of the nation's universities in its nuclear energy research and development activities. By their very nature, universities are ideally organized and positioned to provide creative and transformational fundamental science and engineering that can address knowledge gaps and therefore enhance the ability of the nation to meet its long-term need for sustainable energy. Through the participation of faculty and students in these research

activities, not only is new knowledge generated, but it is effectively translated into practice as graduates join the workforce. Through the NEUP program, the DOE designates up to 20% of its annual nuclear energy research and development budget to fund university-based projects and research infrastructure development activities through an open, peer-reviewed competition. These competitions address the near-term specific needs of DOE nuclear energy R&D programs, the longer-term general needs of DOE nuclear energy R&D programs, and infrastructure improvements that support the educational and research missions of the participating universities.

¹ The Center for Advanced Energy Studies is a public/private partnership between the State of Idaho through its academic research institutions, Boise State University, Idaho State University, the University of Idaho, and the federal government through the Department of Energy and its Idaho National Laboratory, which is managed by the private entity Battelle Energy Alliance. Through its collaborative structure, CAES combines the efforts of these four research institutions to provide timely research support on both technical and policy issues.

Idaho’s universities are committed to helping the DOE and its lead nuclear laboratory achieve their research goals. Through the construction of the CAES facility co-located with the Idaho Falls campus of the INL, Idaho faculty and students are engaged in nuclear research and education shoulder to shoulder with INL scientists and engineers in shared laboratories, using shared state-of-the-art advanced instrumentation and equipment. Continued and expanded DOE nuclear energy research and its associated NEUP program promote the competitiveness of Idaho universities, ensure the nuclear leadership of the INL, and promote regional economic develop while addressing the technology needs of the worldwide nuclear industry and the energy needs of the nation.



Nuclear Energy University Programs Support to Idaho Universities		
University	Total Funding (past 5 years)	Number of Awards and Types
University of Idaho	\$7.6 million	Research and Development (11) General Scientific Infrastructure (2) Fellowship (1) Scholarship (6)
Boise State University	\$1.2 million	Research and Development (1) General Scientific Infrastructure (2) Scholarship (2)
Idaho State University	\$7.6 million	Research and Development (8) Reactor Upgrade Infrastructure (2) General Scientific Infrastructure (1) Fellowship (2) Scholarship (12)

Request: Fund nuclear energy R&D at a robust level and ensure that the 20% is set aside for NEUP. (NEUP funding is a setaside of up to 20% of the nuclear energy R&D budget. Between 2009 and 2012, NEUP invested \$233 million in 81 universities, of which research funding accounted for \$164 million to 65 universities.)

Account: Energy and Water, DOE, Nuclear Energy R&D

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