The Ames Laboratory, U.S. DOE

The Ames Laboratory is a U.S. Department of Energy National Laboratory operated by Iowa State University that creates innovative materials, technologies, and energy solutions. It uses advanced expertise, unique capabilities and interdisciplinary collaborations to solve global challenges.

Ongoing laboratory research is at the forefront of materials discovery, characterization and design, including rare-earth and other critical materials; high-performance computing and analytical science. Other specialized research areas at the Ames Lab are focused on biorenewable resources, catalysis, scalable computing, physical and computational mathematics, and forensic science.

The Ames Laboratory is home to the nation's Critical Materials Institute (cmi.ameslab.gov).

The Ames Lab has a history of innovation, beginning with a process to purify uranium for the Manhattan Project and continuing through the present with transformative technologies, such as lead-free solder and a boron-aluminum-magnesium material, one of the hardest bulk materials after diamond. The Laboratory's portfolio of inventions may be licensed from the ISU Research Foundation.

Working with industry and government through its Work for Others program, the Ames Laboratory utilizes its expertise and unique capabilities to find solutions to key technical issues and make them available to the public. Various types of research agreements are available depending upon the scope of work. The Laboratory can agree with sponsors to protect research data for a set period and/or to not publish the results as needs dictate.

Ames Labs Materials Preparation Center provides high-purity materials and unique characterization services to university, industry and government facilities on a cost-recovery basis. The MPC is recognized for its unique capabilities in the preparation, purification, single-crystal growth and characterization of rare-earth, alkaline-earth and refractory-metal materials. The MPC has an established reputation for providing service tailored to meet each client's individual needs.

Through its education and outreach programs, opportunities for K-12 students, undergraduate and graduate students, community college students, and faculty are available, including a variety of summer internships. Graduate and undergraduate students make up approximately 20 percent of the Ames Laboratory's workforce.

BASIC AMES LABORATORY FACTS

Workforce: 407 full- and part-time employees
Scientific Staff: 230 scientists and engineers
Total Funding: $66M (FY 2013)
Location: Located on the Iowa State University campus in Ames, Iowa

Office of Institutional Research (Source: Ames Laboratory)
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https://www.ameslab.gov/