



THE Ames Laboratory
Creating Materials & Energy Solutions

Key Facts

Ames Laboratory creates innovative materials, technologies and energy solutions. We use our expertise, unique capabilities and interdisciplinary collaborations to solve global challenges.

Basic Research: Ames Lab is at the forefront of materials research, high-performance computing and analytical science. The Lab's research falls within five program areas: Materials Sciences and Engineering; Applied Mathematics and Computational Sciences; Chemical and Biological Sciences; Environmental and Protection Sciences and Simulation, Modeling and Decision Science.

Intellectual Property: Ames Laboratory has a long standing history of innovation, beginning with the developing the 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, which is among the hardest bulk materials after diamond.



Ames Laboratory administrative offices

The Laboratory's portfolio of inventions may be licensed from the Lab's contractor, Iowa State University. The Laboratory can work with the licensee to further develop the technology through a sponsored research agreement.

Applied and Sponsored Research: Working with industry and other federal agencies through its Work for Others program, the Laboratory utilizes its expertise, know-how and unique capabilities to find solutions to key issues. Sponsored research may take the form of Work for Others, Cooperative Research and Development Agreement, Technical Service Agreement or personnel exchanges, and may range from a few days to several years depending upon the scope of work.

Specialized Research Resources: The Materials Preparation Center provides high-purity materials and unique characterization services to scientists at university, industry and government facilities. Other specialized research resources are focused on forensics, biorenewable resources, catalysis, scalable computing and physical and computational mathematics.

Science Education: We inspire future generations by exciting them about science. Through our programs we provide a continuum of opportunities for K-12 students and teachers, and undergraduate and graduate students. Graduate and undergraduate students

make up approximately 20 percent of the Laboratory's workforce.

Alex King is the director of the Ames Laboratory. King holds a B.Met. in physical metallurgy from the University



of Sheffield, England, and a D.Phil. in metallurgy and the science of materials from the University of Oxford. He is a fellow of the American Society of Materials, the Institute of Materials of the United Kingdom and the Materials Research Society. He was a visiting fellow of the Japan Society for the Promotion of Science in 1996 and a Jefferson Science fellow in the U.S. Department of State from 2005 to 2006.

BASIC AMES LABORATORY FACTS

Work force:

400+ full-and part-time employees

Scientific staff:

250 scientists and engineers

Annual budget: \$32 million

Location: Located on the Iowa State University campus in Ames, Iowa

Web site: www.ameslab.gov

CONTACT INFORMATION:

Alex King

Director

director@ameslab.gov

515-294-2770

311 TASF, Ames, IA 50011-3020



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