



# SOME “MATERIAL” FACTS ABOUT AMES LABORATORY

## **Ames Laboratory**

### **Creating Materials and Energy Solutions**

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[www.ameslab.gov](http://www.ameslab.gov)

## **Ames Laboratory creates materials and energy solutions.**

Our scientists are in a constant quest for solutions to energy challenges—like wind and solar power, hydrogen storage, biofuels processes, energy efficiency, to name just a few—through the exploration of materials science, physics, chemistry, engineering, applied mathematics, and high performance computing.

### **Ames Laboratory is:**

- The only one of 17 U.S. Department of Energy national laboratories that sits on the campus of a major university, Iowa State University.
- Internationally known for its expertise in magnetic, rare earth and critical materials, catalysts, metamaterials, and superconductors.
- A national resource for materials synthesis with its unique crystal growth capabilities and the Materials Preparation Center.
- A developer of advanced analytical instrumentation and of algorithms for materials modeling and design.
- An innovator of technology advances, from lead-free solder and multiplexed capillary electrophoresis to boron-aluminum-magnesium (BAM) alloy and biofuel catalysts.
- Part-time home to materials scientist Danny Shechtman, who won the 2011 Nobel Prize in Chemistry for the discovery of quasicrystals.
- Home of the Critical Materials Institute, a DOE Energy Innovation Hub.

