THE Ames Laboratory

Creating Materials & Energy Solutions

Inspiring Future Generations by Exciting Them About Science

Ames Laboratory works to carry out the Department of Energy's mission to educate and train the next generation of scientists and engineers.

The Laboratory's programs are diverse, reaching out to elementary, middle school, high school, undergraduate and graduate students through internships, mentoring, and interactive activities, and graduate fellowships and research for both working and pre-service teachers.

K-12

- High School Science Bowl – annual fast-paced science and math quiz-bowl competition in which students answer questions in science and math.
- Middle School Science Bowl – annual fast-paced science and math quiz-bowl competition in which students answer questions in science and math, and a hydrogen fuel-cell car competition in which students build cars and then race them.
- Tinkering with Science – interactive event in which high school and middle school students work with a Master Teacher to augment science skills and interact with Ames Laboratory scientists.
- Elementary School Family Science Nights – interactive elementary school events that allows students to experience science through interactions with Ames Laboratory scientists and staff.

Undergraduates

- Science Undergraduate Laboratory Internship – provides 10-week student internships with scientists/mentors in real-world science labs.

Teachers

- DOE Academies Creating Teacher Scientists – provides opportunities to strengthen science and math skills through interaction with a Master Teacher and opportunities to work with scientists in real-world research environments.
- Pre-Service Teacher program – provides 10-week internships in spring with Ames Laboratory scientist/mentors for students who have committed to a teaching career.
- Middle School Science Bowl Teacher Workshop – builds teacher understanding of hydrogen fuel-cell technology through a workshop in which they build hydrogen fuel-cell cars.

Graduate students

- Research appointments are provided to qualified students. Students work in real-world laboratories under the guidance of scientist mentors.

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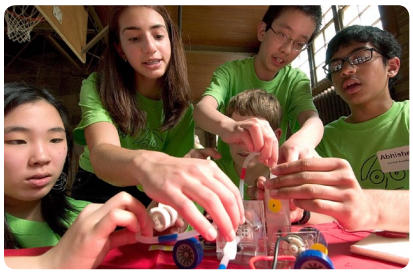
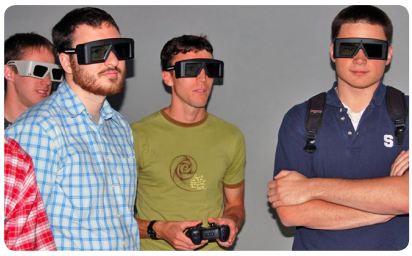


Student team prepares its car for the Middle School Science Bowl hydrogen fuel-cell car race.

ACTS Teachers participate in a research experiment.



Science Undergraduate Laboratory Internship students don glasses to view virtual reality.

Pre-Service Teacher Patrick Rodenborn with his mentors.