DOE Resources and Opportunities for Students
HIGH SCHOOL COMPETITIONS

• BioenergizeME Infographic Challenge to research, interpret, apply, and then design an infographic that responds to one of four bioenergy topics. [http://www.energy.gov/eere/bioenergy/infographic-challenge](http://www.energy.gov/eere/bioenergy/infographic-challenge)

• National Science Bowl is an annual, nation-wide competition where students are quizzed in a fast paced question-and-answer format to test their knowledge in STEM fields. [http://science.energy.gov/wdts/nsb/](http://science.energy.gov/wdts/nsb/)

This infographic was created by students from Williamsburg HS for Architecture and Design in Brooklyn, NY.
DOE College Planning Resources

- **Colleges and universities** with degree programs or specializations in clean energy fields [http://energy.gov/eere/education/colleges-and-universities](http://energy.gov/eere/education/colleges-and-universities)
- **Community colleges and training centers** that offer two-year degrees or certificates for jobs in the expanding field of energy efficiency and renewable energy [http://energy.gov/eere/education/community-colleges-and-certificate-programs](http://energy.gov/eere/education/community-colleges-and-certificate-programs)
- **Explore clean energy careers**: [http://energy.gov/eere/education/explore-clean-energy-careers](http://energy.gov/eere/education/explore-clean-energy-careers)
• The Solar Decathlon is a two-year competition to design, build, and operate solar-powered houses that are cost-effective, energy-efficient, and attractive. The next challenge is in 2017. http://www.solardecathlon.gov
• The Collegiate Wind Competition involves designing and constructing a lightweight, transportable wind turbine that can be used to power small electronic devices. https://www4.eere.energy.gov/wind/wind_competition/home
• The Clean Energy Business Plan Competition starts with regional competitions annually. Six finalists from the regional business plan competitions then pitch their business plans to a panel of expert judges at the national competition. http://challenge.cleanenergytrust.org/#!
DOE College Competitions

• **The Better Buildings Case Competition** challenges team members to devise actionable ways to cut energy waste and improve commercial building efficiency. [http://www1.eere.energy.gov/buildings/betterbuildings/casecompetition/](http://www1.eere.energy.gov/buildings/betterbuildings/casecompetition/)

• **The Race to Zero** is an annual competition based upon a real-world scenario where a builder needs to update an existing product line to a high-performance house design or is developing a new high performance home product line. [http://energy.gov/eere/buildings/us-department-energy-race-zero-student-design-competition](http://energy.gov/eere/buildings/us-department-energy-race-zero-student-design-competition)

• **Hydrogen Student Design Contest** challenges to apply their creativity and academic skills in the areas of design, engineering, economics, environmental science, business and marketing to the hydrogen and fuel cell industries. [http://hydrogencontest.org](http://hydrogencontest.org)

• **EcoCAR 3** is the latest DOE Advanced Vehicle Technology Competition (AVTC). EcoCAR 3 is challenging teams to redesign a Chevrolet Camaro to reduce its environmental impact, while maintaining its muscle and performance. Currently running 2014-2018. [http://ecocar3.org](http://ecocar3.org)
DOE General Laboratory Internships

- **Science Undergraduate Laboratory Internships (SULI)** provide research experiences at the DOE National Laboratories. They perform research under the guidance of laboratory staff scientists or engineers on projects related to ongoing programs. [http://science.energy.gov/wdts/suli/](http://science.energy.gov/wdts/suli/)
- **Community College Internships (CCI)** place students in paid internships at the DOE National Laboratories. They work with scientists or engineers on projects related to the laboratories' research programs and attend career planning and training sessions. [http://science.energy.gov/wdts/cci/](http://science.energy.gov/wdts/cci/)

2014 SULI researchers at Thomas Jefferson National Accelerator Facility
DOE Laboratory Specific Internships

More than 15 laboratory specific internships including:

• The EERE Advanced Manufacturing Internship Program provides a 6-week hands-on introduction to the field of advanced manufacturing in Oak Ridge, TN, including an introduction to materials, design for advanced manufacturing, printers and fabrication, titanium and ABS plastics, and carbon fiber.

• The Internship for Physics Majors program at Fermilab offers ten-week summer internships to outstanding undergraduate physics majors. This program has been developed to familiarize students with opportunities at the frontiers of scientific research in particle physics.

Find information at: http://energy.gov/eere/education/find-internships
Internships designed to increase underrepresented minority participation in the STEM fields including:

- **Mickey Leland Energy Fellowship** for women and under-represented minorities to work in focused research projects run by the Office of Fossil Energy.

- Minority Educational Institutions Student Partnership Program (MEISPP), offers talented students summer internship positions with the Department of Energy and our National Laboratories.