Competitions and Contests

- **ASCE Concrete Canoe Competition**
  Student members from across the country celebrate concrete fun each year during the Concrete Canoe Competition. Many teams will compete, but only one will paddle their canoe to victory! [www.asce.org/inside/nccc.cfm](http://www.asce.org/inside/nccc.cfm)

- **ASCE/AISC Student Steel Bridge Competitions**
  Student members work together with teams from across the country to show off their skills in steel design, steel fabrication, and teamwork during the ASCE/AISC Student Steel Bridge Competition. [www.nssbc2007.com](http://www.nssbc2007.com)

Catch the Spirit: Engineer Your Own Contest!

- **West Point Bridge Design Contest**
  Middle school and high school students, here’s your chance to get an interactive and realistic introduction to bridge designing! ASCE membership not required. [http://bridgecontest.usma.edu](http://bridgecontest.usma.edu)

JETS

[www.jets.org](http://www.jets.org)

Explore...Assess...Experience Engineering with JETS. JETS makes engineering and technology come to life through top academic competitions, career exploration materials, a dynamic monthly e-newsletter, and new online resources for students, parents, and educators.

Sloan Career Cornerstone Center

[www.careercornerstone.org](http://www.careercornerstone.org)

A comprehensive career planning resource center for those considering careers in science, technology, engineering, mathematics, computing, or medicine.

So You Want to Study Civil Engineering?

[www.asce.org/membership/studmem.cfm](http://www.asce.org/membership/studmem.cfm)

You’ve Got the Right One Baby! Make all the right connections with ASCE. Membership is free for civil engineering students—and a valuable part of your education! Student Member benefits include access to ASCE Student Web site containing countless career resources, access to a nationwide resume database, ResumeMatch, FREE monthly issues of the Award-Winning Civil Engineering magazine and ASCE News via the ASCE Student Web site, information on $75,000 in annual scholarships, fellowships & awards and much more!

Inside ASCE

Founded in 1852, the American Society of Civil Engineers (ASCE) represents civil engineering professionals worldwide, and is America’s oldest national engineering society.

For more information contact us at:

American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, Virginia 20191
Website: [www.asce.org](http://www.asce.org)
E-mail: outreach@asce.org

What is a Civil Engineer?
Design Your Future with Civil Engineering!

Civil engineers build skyscrapers that reach thousands of feet in the air. They hang suspension bridges that support tons of cars and trucks each day. They help construct the wonders of the modern world. Their work is linked to the health, well-being and safety of millions each and every day.

Civil Engineering Specialties
- Construction Engineering
- Environmental Engineering
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Urban Planning
- Water Resources

Take the Civil Engineering Challenge and DESIGN IT!

- Roller Coasters
- Sports Stadiums
- Skyscrapers
- Bridges
- Dams
- Levees

Protect the Great Outdoors!

Years of pollution and contamination have not only damaged the earth, some of our natural resources - air, water and soil - have become dangerous to humans and animals. Luckily, environmental engineers are on the job! Each and every day, they use their wit and savvy to clean up man-made and natural pollutants and they help prevent new ones from further destroying the earth and its resources.

DANIEL GARBELY
Growing up in countries like Nepal, Indonesia and Romania, Daniel Garbely, a civil engineer with CH2M HILL in Portland, OR, was exposed firsthand to the vast number of people who do not have access to clean water, sanitation or shelter. Garbely specializes in water/wastewater projects and devotes his expertise to helping provide these basic human resources worldwide. This 28-year-old serves as a water expert for Engineers Without Borders (EWB) on projects in El Salvador and Thailand.

Shake Things Up!

Only a civil engineer can design a structure to withstand the most powerful wind gusts and the shock of earthquakes.

PATRICK TRAVERS
From the high-rise skyline to poverty stricken communities in Peru, Patrick Travers works to improve the quality of life worldwide. This 24-year-old civil engineer designs gravity and lateral systems for buildings constructed of reinforced concrete and other materials. Travers is committed to using his career to make a substantial difference to the improvement of this earth for all people. “My real fulfillment in life comes from this service to others... my heart was touched and my eyes were opened to a new reality.”

Investigating Murky Waters

Civil engineers guard our nation’s water supply by setting rigid security standards.

JACQUELINE KEPKE
Since the tragic events of Sept. 11, Jacqueline Kepke has been working to protect our nation’s water and wastewater infrastructure in a world of increasing risk. She is literally writing the book on teaching methods for this nation’s water utilities personnel on how to assess system vulnerabilities and improve emergency response planning.

Show Me the Money!

Compensation

According to the 2005 survey by the National Association of Colleges and Employers, civil engineers earn the following salaries upon graduation:
- Bachelor’s degree candidates: $43,679
- Master’s degree candidates: $48,050

Make Your High School Classes Count

- Go for challenging math and science courses, like calculus, physics, and chemistry!
- Take English classes seriously. You’ll need to write about your work for others.
- Sign up for computer science and computer-aided drafting.
- Join the stage crew and help design and build sets for the school play.
- Work for or intern with a construction company to get a feel for the building process (College Board).

Civil engineering majors learn how to use math and science to design projects that solve real-world problems. Math and science courses should contribute to the development of the students’ abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic.