

Did you know...?

Did you know that in the U.S. we consume 85 million bottles of water each day*? That means we need lots of civil engineers working on how to keep the water clean and safe. We need material scientists to figure out how to keep the bottles water-tight until we use them, but able to decompose when we are finished with them. We also need environmental engineers to figure out how to recycle that many bottles, and industrial engineers to figure out how to efficiently fill and seal all those bottles.

Did you know the Global Hawk Unmanned Air Vehicle flies at over 60,000 feet altitude? NASA uses the Global Hawk to follow hurricanes across the Atlantic Ocean. An all-female flight crew set a record for longest flight on a single tank of gas with the Global Hawk flying for 34.3 hours straight!

Did you know that Maryland and D.C. have more people working in Cyber Security than any other place in the country? We have about 23,000 active Cyber Security job postings**. These jobs pay well, usually have flexible work schedules and come with many fringe benefits.

*Source: National Public Radio

**Source: The Washington Post

Awesome Career Path Resources

- TryEngineering.org
- ManufacturingisCool.com
- EngineerGirl.org
- EngineerYourLife.org
- DotDiva.org
- ComputingCareers.acm.org



Is a career in engineering right for you? You may want to ask yourself...

Am I interested in improving the environment?

Am I good at problem solving?

Am I interested in helping people live better?

Do I like spending hours fixing or making something work?

Do I ever look at a product and start thinking of ideas on how to make that product better?

Do I enjoy trying to figure out how machines, bikes, radios or the human body work?

...If you answered yes to any of these questions, you may want to consider a career in the field of engineering.



**ENGINEERING
AS A CAREER**

*Design.
Create.
Explore.
Innovate.*

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

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What is Engineering?

Engineers are changing the world all of the time. They dream up creative, practical solutions and work with other smart, inspiring people to invent, design and create things that matter.

What do engineers do?

- Engineers make a world of difference.
- Engineers are creative problem-solvers.
- Engineering is essential to our health, happiness and safety.
- Engineers help shape the future.



Top Reasons to Love Engineering

1. Love your work, AND live your life too!
2. Be creative.
3. Work with great people.
4. Design things that matter.
5. Never be bored.
6. Make a good salary.
7. Enjoy job flexibility.
8. Travel.
9. Make a difference.
10. Change the world.

Learn more about engineering at the National Academy of Engineering site
www.nae.edu

Cool Engineering Careers

Aerospace Engineering



Design commercial airplanes and military fighter jets, space telescopes and satellites. They also develop sports equipment such as golf balls and tennis rackets that require good aerodynamics.

Biomedical Engineering



Develop lifesaving technologies and devices related to health care, including medical diagnostic machines, medical instruments, artificial organs and limbs.

Computer Science



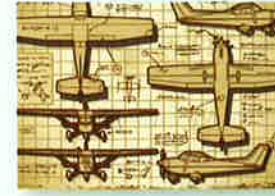
Research, design, develop and test computer programs and supervise their manufacture and installation.

Cyber Security



Cyber Security refers to all of the tools we use and actions we take to keep computers, networks and information safe and available for those who need it, and unavailable for those who should not have it.

Electrical Engineering



Design, develop, test and supervise the production of electrical equipment, including computers, machines, aircraft, radars and navigation systems.

Environmental Engineering



Protect fragile resources of our planet. They translate physical, chemical and biological processes into systems that destroy toxic substances, remove pollutants and eliminate contaminants from the air.

Materials Engineering



Your job might be to create shock-absorbent material for a running shoe, enhance the handling ability of snowboards with more flexible materials, or identify steel beams capable of bearing the weight of a bridge.

Mechanical Engineering



Research, design, develop, manufacture and test tools, engines, machines and other mechanical devices, including generators, internal combustions, turbines and robots in manufacturing.