AEROSPACE
As an aerospace engineer, you might work on putting astronauts back on the moon by 2020. Or, you might help develop a new generation of space telescopes. But outer space is just one of many realms to explore as an aerospace engineer. You might develop commercial airliners, military jets, helicopters, or ground and sea transportation, including high-speed trains, racing cars, and deep-sea vessels that explore life at the bottom of the ocean. The sky is not the limit!
American Institute of Aeronautics (AIAA): www.aiaa.org

ARCHITECTURAL
Architectural Engineers create the world’s coolest structures. They focus on combining engineering and art to design functional and environmentally friendly buildings that are safe and awe inspiring.
Architectural Engineering Institute (AEI): www.aeinstitute.org

BIOMEDICAL
As a biomedical engineer, you’ll make a real difference in the lives of others. Imagine hospitals operating without X-rays, ultrasound, EKGs, and the thousands of high-tech procedures and devices that diagnose conditions, sustain health, and fight disease. Outside the world of medicine, you could contribute to the health of our planet by developing better technology in the fields of agriculture and environmental science.
Biomedical Engineering Society (BMES): www.bmes.org

CHEMICAL
A chemical engineer uses chemical processes to find innovative and creative ways of producing goods that improve the lives of others. The work of a chemical engineer can range from developing better cosmetics to producing fire-resistant materials. As a chemical engineer, you might be involved in cutting-edge research, or be part of a creative team at a food manufacturing company, dreaming up a delicious new candy bar.
American Institute of Chemical Engineers (AIChE): www.aiche.org

CIVIL
What would it feel like to have the expertise to build a school that could withstand an earthquake, a road system that puts an end to chronic traffic jams, or a sports stadium that offers everyone a great view? As a civil engineer, you might design roller coasters, highways, skyscrapers, railways, bridges, water reservoirs, or tunnels. Civil engineering is engineering for people.
American Society of Civil Engineers (ASCE): www.asce.org

ELECTRICAL & COMPUTER
As an electrical engineer, you could develop components for some of the most fun things in our lives (MP3 players, digital cameras, or roller coasters) as well as the most essential (medical tests or communications systems). As an electrical engineer, you might work on robotics, computer networks, wireless communications, or biomedical devices — areas that are at the very forefront of technological innovation.
Institute of Electrical and Electronics Engineers (IEEE): www.ieee.org

GEOSYSTEMS & HYDROGEOLOGY
Geosystems engineers and hydrogeologists combine engineering and geology to solve real-world problems such as restoring underground aquifers which are important sources of drinking water. As a geosystems engineer you could address the world’s most pressing energy, water resource, and environmental concerns.
American Institute of Hydrogeology (AIH): www.aihydro.org

MECHANICAL
As a mechanical engineer, you might develop a bike lock or an aircraft carrier, a child’s toy or a hybrid car engine, a wheelchair or a sailboat—or anything that involves a mechanical process. Mechanical engineers are often referred to as the general practitioners of the engineering profession, since they work in nearly every area of technology, from aerospace and automotive to computers and biotechnology.
American Society of Mechanical Engineers (ASME): www.asme.org

PETROLEUM
Petroleum engineers focus on both providing energy for the world’s people and saving the planet by mitigating the effects of using hydrocarbons. They invent new techniques to recover natural resources from the earth and apply environmentally sound production methods for oil and natural gas. Even as we develop important sources of alternative energy, oil and natural gas will remain essential for decades to come.
Society of Petroleum Engineers (SPE): www.spe.org
www.iamthenaturalresource.org

FOR ADDITIONAL INFORMATION ABOUT ENGINEERING:
Engineer Your Life: www.engineeryourlife.org
Engineering Go For It: www.egfi-k12.org