

CAREER EXPLORATION

FOR FRESHMAN ENGINEERING

Engineers are

- > Problem solvers
- > Communicators
- > Organizers
- > Designers

Engineers rely on **rational thinking** and **logical decision making**. Most have math and science backgrounds. Engineers in the modern world are often software savvy and use a range of computing programs. Engineers invent, innovate, design, build, maintain, research, and improve structures, machines, tools, systems, components, materials, and processes.

Engineering is a broad field and S&T offers 15 different undergraduate engineering programs, including:

- > Aerospace
- > Architectural
- > Ceramic
- > Chemical
- > Civil
- > Computer
- > Electrical
- > Engineering Management
- > Environmental
- > Geological
- > Mechanical
- > Metallurgical
- > Mining
- > Nuclear
- > Petroleum

Discovering your personal career interests

The best career for you is a combination of what you like and where you excel. The Holland Model helps you determine if your interests and skills match those of professional engineers. This model places interests and attributes into six basic categories using the acronym **RIASEC**.

Which interests sound like you?

- Realistic (Do-ers):** practical, physical, hands-on, tool-oriented
- Investigative (Thinkers):** analytical, intellectual, scientific, explorative
- Artistic (Creators):** creative, original, independent, chaotic
- Social (Helpers):** cooperative, supporting, helping, healing/nurturing
- Enterprising (Persuaders):** competitive environments, leadership, persuading
- Conventional (Organizers):** detail-oriented, organizing, clerical

Majors and careers are all described using the Holland Code. Know your RIASEC letters, know what kind of job you'll enjoy!

A few examples...

- > Chemical Engineer (IRE)
- > Chemist (IRE)
- > Computer Systems Analyst (IER)
- > Dentist (ISR)
- > Ecologist (IRE)
- > Economist (IAS)
- > Electrical Engineer (IRE)
- > Geologist (IRE)
- > Horticulturist (IRS)
- > Mathematician (IER)
- > Medical Technologist (ISA)
- > Meteorologist (IRS)
- > Nurse Practitioner (ISA)
- > Pharmacist (IES)

To begin your career exploration journey: Use RIASEC as a guide.

- > Focus on your interests. What kinds of activities, hobbies, and subjects do you really like?
- > Get your Holland Code letters! Visit www.mynextmove.org and start in the "I'm not really sure" section.
- > Explore the rest of that website and the Counseling, Disability Support, and Student Wellness (CDSW) website to learn more about specific careers.
- > Meet with a counselor one-on-one to get personalized career assistance.

If your interests and abilities don't seem to match up with engineering, there are many other majors to explore and thousands of job titles. And we can help!

TAKE ACTION, YOUR FUTURE IS WAITING!

Call our office at **573-341-4211** for free, confidential, and personal career guidance. Visit our website to learn more: www.counsel.mst.edu