UNDERGRADUATE DEGREES

B.S. IN GEOLOGY AND GEOPHYSICS
Develop a strong background in geology and geophysics during your first two years of study. Then, focus on your specialization area, which could include geochemistry, general geology, geophysics, environmental geochemistry or petroleum geology.

B.S. IN GEOLOGICAL ENGINEERING
Expand your knowledge in both the areas of geology and engineering. Learn how these two fields come together while frequently taking part in fieldwork and research in our hands-on laboratories. Study environmental remediation techniques for natural resources, such as groundwater.

B.S. IN PETROLEUM ENGINEERING
Study the technological foundations of the oil and gas industry. Develop your experimental and computational skills to study well metrics, reservoir engineering, secondary and tertiary methods for extracting oil, geothermal energy, carbon management, and various other topics related to petroleum engineering.

GRADUATE DEGREES
• M.S., Ph.D. and D.E. (Doctor of Engineering) in Geological Engineering
• M.S. and Ph.D. in Geology and Geophysics
• M.S., Ph.D. and D.E. in Petroleum Engineering
• M.E. in Geotechnics
• M.S. in Water Science and Engineering
Gain hands-on experience early in your educational journey.

Both undergraduate students and graduate students at S&T are encouraged to be involved with ongoing faculty research projects.

- Research in geosciences and geological and petroleum engineering focuses on the understanding and characterization of the Earth’s subsurface, sustainability, energy and water resources.
- Learn to work with Geographic Information Systems (GIS) to locate minerals using satellites!

Career opportunities include jobs in the following fields:

**Geology and Geophysics**

- **ENVIRONMENTAL** — Identify adequate sources of water and natural resources.
- **EDUCATION** — Work with college students to develop their knowledge in this discipline.
- **RESEARCH AND DEVELOPMENT** — Help predict when and where the next earthquake, volcanic explosion or tsunami may happen.
- **GOVERNMENT** — Work for various state and federal agencies related to this field.

**Geological Engineering**

- **ENVIRONMENTAL** — Improve the earth with environmental remediation projects.
- **EDUCATION** — Teach geological engineering concepts to college students.
- **MINING** — Assist with planning, designing and the construction of mines and other underground structures.
- **RESEARCH** — Take part in testing rock and soil samples and computational modeling of geological conditions. Conduct geospatial analysis and remote sensing using drones and satellite data.

**Petroleum Engineering**

- **ENVIRONMENTAL** — Evaluate oil and gas production.
- **EDUCATION** — Help develop the next generation of petroleum engineers.
- **GOVERNMENT** — Work to predict future petroleum production rates.
- **RESEARCH** — Focus on exploring, drilling, and extracting hydrocarbon resources from the earth.

Earn while you learn

Co-ops and internships are available for students. S&T has multiple partners for experiential learning opportunities in the geosciences and geological and petroleum engineering department.

Several scholarships are available for our students!