

PETROLEUM AND NATURAL GAS ENGINEERING

COLLEGE OF ENGINEERING AND SCIENCE



MAJOR

- Petroleum and Natural Gas Engineering (BS)*

ACADEMIC CONTACT

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WHAT CAN I DO WITH A PETROLEUM AND NATURAL GAS ENGINEERING DEGREE?

Petroleum engineers design and develop methods for extracting oil and gas from deposits below the earth's surface. Petroleum engineers also find new ways to extract oil and gas from older wells. Petroleum engineers generally work in offices or at drilling and well sites. Travel is frequently required to visit these sites or to meet with other engineers, oilfield workers and customers. The median annual wage for petroleum engineers was \$135,690 in May 2023. Employment of petroleum engineers is projected to grow 8% from 2021 to 2031, much faster than the average for all occupations. By exploring new reservoirs, especially through unconventional methods, the industry is rapidly evolving into a field that depends on high tech, data science, and computer simulation to explore and extract oil and gas in safe and environmentally friendlier techniques.

PETROLEUM AND NATURAL GAS ENGINEERING AT SRU

The petroleum and natural gas engineering curriculum is designed to prepare students with solid scientific knowledge and hands-on exposure to the latest industry practices. The curriculum covers all areas of petroleum engineering, including drilling, production and reservoir engineering. Furthermore, courses related to production from unconventional reservoir engineering and hydraulic fracturing are included to educate students on up-to-date petroleum engineering practices to further prepare them to succeed in the workforce. The petroleum engineering program includes several laboratory-based courses, including two advanced labs: Core laboratory and Drilling Fluids Laboratory. All labs are equipped with state-of-the-art devices, several of which are used by leading energy companies.

WHY CHOOSE PETROLEUM AND NATURAL GAS ENGINEERING AT SRU?

- 1. Small lab and class sizes:** Labs are capped at 18 students and the average class size at SRU is 25, providing students a more individualized classroom experience.
- 2. Dedicated faculty:** All courses will be taught by dedicated teaching faculty with terminal degrees and, in some instances, by professional engineers. Program faculty are dedicated to teaching excellence and they genuinely care about your success. Faculty bring their professional, research and industry experience to the classrooms to enhance your learning experience.
- 3. State-of-the-art laboratories:** The program is equipped with several teaching laboratories, including two advanced laboratories to expose students to hands-on experiments.
- 4. Internship opportunities and career advising:** Although internships are not required, students are encouraged to seek summer internships. Engineering faculty actively seek internship opportunities for their students from engineering companies, design firms and governmental agencies.
- 5. High-quality program:** Our Petroleum and Natural Gas Engineering program is fully accredited by the Accreditation Board for Engineering and Technology (ABET) to ensure our program meets the quality stands that produce graduates ready to enter the workforce.