

Petroleum and Natural Gas Engineering *Graduate Option*

Since 1931



The John and Willie Leone Family Department of Energy and Mineral Engineering (EME) is a unique department with world-class faculty experts in science, engineering, economics, and statistics applied to the energy and mineral resources sector. Our faculty encompass the range of disciplines required for the energy and environmental challenges of today and the next century.

EME Research Focus Areas

- Petroleum and Natural Gas Engineering, and Subsurface Energy
- Energy and Fuel Science
- Energy Systems Engineering, and Renewables
- Energy Policy and Economics
- Mining and Mineral Process Engineering
- Industrial Health, Safety, and Geoenvironmental Engineering

EME by the Numbers

260 Graduate students enrolled

55 M.S., M.P.S., and Ph.D.s awarded

50 Faculty – mostly tenure or tenure track

1 National Academy of Engineering member

4 National Science Foundation CAREER Awards

\$13 Million in research expenditures this year

Degrees Awarded

- M.S. in Energy and Mineral Engineering*
- M.P.S. Renewable Energy and Sustainability Systems
- Ph.D. Energy and Mineral Engineering*

*Specializations: Petroleum and Natural Gas Engineering, Fuel Science, Mining and Mineral Process Engineering, and Energy Systems Engineering

Graduate Program Coordinator

Lan Zeigler | gradprogram@eme.psu.edu

Petroleum and Natural Gas Engineering (PNGE)

PNGE researchers in the EME Department solve complex problems of energy and the environment with a global reach of economic, geopolitical, and societal impacts. Working with distinguished professors, our PNGE graduate students conduct cutting-edge research in subsurface energy production and storage areas including:

- Carbon management
- Geothermal energy
- Hydrogen storage
- Unconventional reservoirs
- Enhanced oil recovery
- Environmental remediation
- Sustainable energy systems
- Reservoir engineering
- Production and drilling
- Geomechanics
- Reservoir characterization
- Geochemistry
- Energy economics
- AI and machine learning

Our program has high rates of job and internship placement in both academia and industry.

Important Dates

- January 5 – Fall application deadline - seeking assistantship
- March 5 – Fall late application deadline
- September 5 – Spring application deadline

PNGE Chair

Hamid Emami-Meybodi

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Join a vibrant industry of new and emerging technologies to become an energy leader and be a part of the next breakthrough in worldwide energy supply.

eme.psu.edu/emegrad/apply