The College of Earth and Mineral Sciences (EMS) at Penn State boasts a long and distinguished history, one that started in 1859 with the University’s first Earth sciences courses offered in the agricultural program and stretches today to the borders of the Commonwealth, the nations, and beyond. The college was founded in 1896 as the School of Mines with its single major in mining engineering and was later renamed the School of Mineral Industries by Dean Edward Steidle in 1929, supporting Pennsylvania as the leading mineral-producing state. Today, the college is internationally recognized for research and education in engineering, Earth sciences, energy, and materials science.

www.ems.psu.edu

Undergraduate

1,080 at UP

215 World Campus and Other Campuses

1295 EMS Total (Fall 2023)

Graduate

318 World Campus

421 Ph.D.

788 EMS Total (fall 2023)

Resident Master’s 49

ACADEMIC RANKINGS

Programs in our academic departments are ranked nationally in the latest U.S. News & World Report rankings.

Undergraduate program rankings:
- Petroleum Engineering, 7th
- Materials Engineering 9th

Graduate program rankings:
- Environmental Sciences, 3rd
- Geochemistry, 4th
- Petroleum Engineering, 6th
- Earth Sciences, 7th
- Paleontology, 7th
- Geophysics and Sedimentology, 9th
- Geology, 10th
- Materials Engineering, 11th

ACADEMIC DEPARTMENTS

- John and Willie Leone Family Department of Energy and Mineral Engineering
- Department of Geography
- Department of Geosciences
- Department of Materials Science and Engineering
- Department of Meteorology and Atmospheric Science

OUR INSTITUTES

- John A. Dutton e-Education Institute
- Earth and Environmental Systems Institute (ESI)
- EMS Energy Institute
UNDERGRADUATE PROGRAMS

Resident (B.S./B.A.)
- Earth Science and Policy
- Earth Sciences
- Energy Business and Finance
- Energy Engineering
- Environmental Systems Engineering
- Geobiology
- Geography
- Geosciences
- Materials Science and Engineering
- Meteorology and Atmospheric Science
- Mining Engineering
- Petroleum and Natural Gas Engineering

Non-Tenure-Track
- Energy and Sustainability Policy

Faculty

144 TENURED/TENURE-TRACK
- 70 Full Professors
- 28 Associate Professors
- 46 Assistant Professors

134 NON-TENURE-TRACK
- 48 Researchers/Research Professors
- 38 Lecturers/Teaching Professors
- 48 Postdoctoral Scholars

Degrees Awarded

Total Degrees (2022-23)
- 622 Bachelor’s Degrees
- 155 Master’s Degrees
- 61 Doctoral Degrees

Expenditures (FY 2022-23)
- Total expenditures $148.6M
- General $61.9M
- Research $79.4M
- Gifts/Endowments $7.3M

RESEARCH

In the most recent rankings released by the National Science Foundation of total research expenditures for science and engineering, many of the college’s programs are highly ranked:

- Materials Science, 1st
- Metallurgical and Materials Engineering, 2nd
- Total Engineering, 4th
- Atmospheric Science and Meteorology, 10th
- Geological and Earth Sciences, 12th
- Physical Sciences (overall), 14th

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This publication is available in alternative media on request.

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