COLLEGE AT A GLANCE

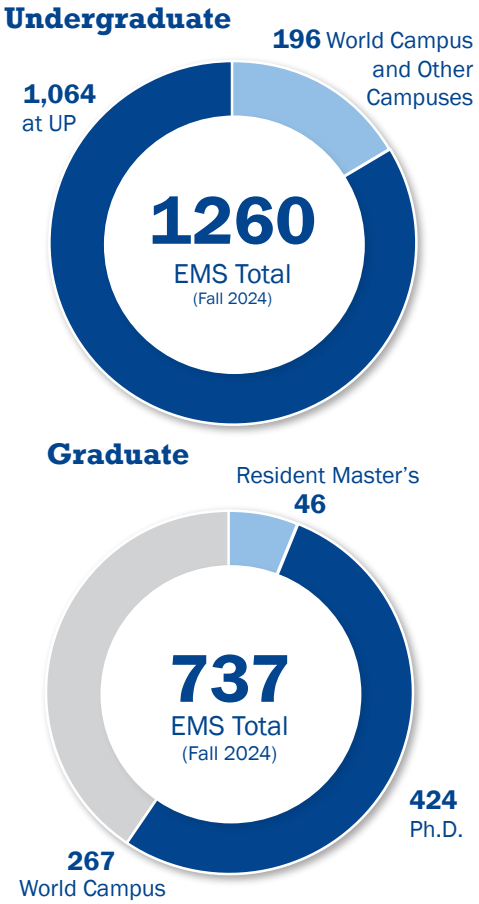
PennState College of Earth and Mineral Sciences

HISTORY

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

ENROLLMENT



ACADEMIC RANKINGS

Programs that are ranked nationally in the latest *U.S. News & World Report* rankings.

Undergraduate program rankings:

- Petroleum Engineering, 4th
- Materials Engineering, 10th
- Environmental Systems Engineering, 15th

Graduate program rankings:

- Petroleum Engineering, 3rd
- Environmental Sciences, 3rd
- Geochemistry, 4th
- 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

- Dutton Institute for Teaching and Learning Excellence
- Earth and Environmental Systems Institute (EESI)
- 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

Online Degree Programs

- Energy and Sustainability Policy

GRADUATE PROGRAMS

Resident (M.S./Ph.D.)

- Energy and Mineral Engineering
- Geography
- Geosciences
- Materials Science and Engineering
- Meteorology and Atmospheric Science

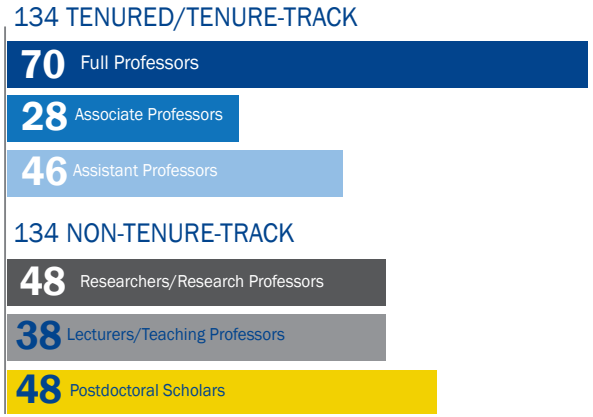
Resident (M.S./Ph.D.) - Dual-title

- Astrobiology
- Biogeochemistry
- Climate Science
- Operations Research
- Transdisciplinary Research on Environment and Society
- Women's, Gender, and Sexuality Studies

Online Degree Programs

- Additive Manufacturing and Design
- Geographic Information Systems
- Professional Studies in Homeland Security, Intelligence and Geospatial Analysis Option
- Spatial Data Science
- Renewable Energy and Sustainability Systems

Faculty



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

Office of the Dean
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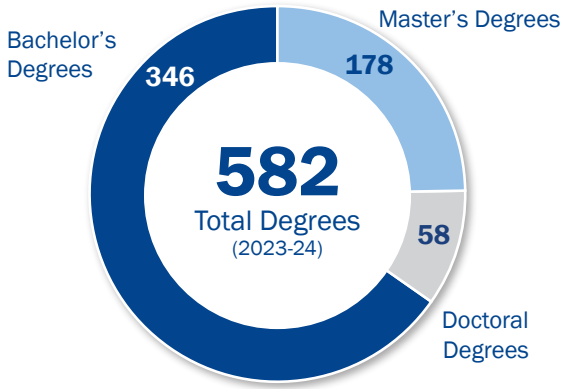
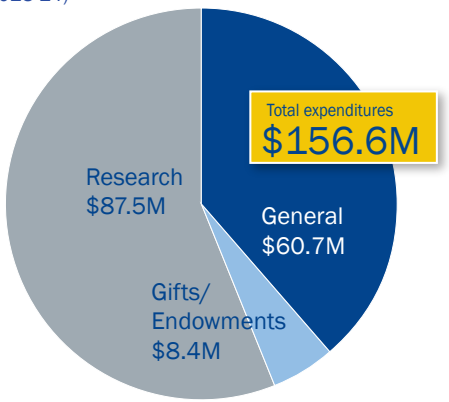
Degrees Awarded



Expenditures

(FY 2023-24)



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