

## 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.

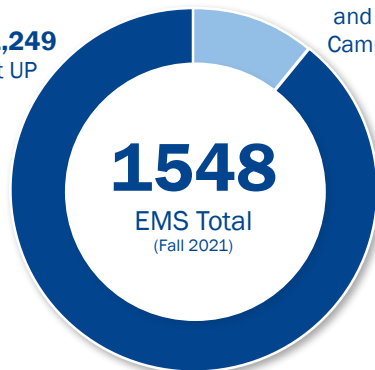
[www.ems.psu.edu](http://www.ems.psu.edu)

## ENROLLMENT

### Undergraduate

1,249  
at UP

155 World Campus  
and Other  
Campuses



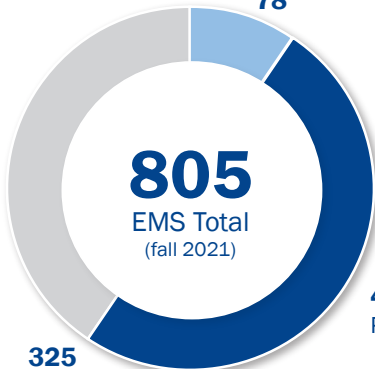
### Graduate

Resident Master's  
78

805  
EMS Total  
(fall 2021)

325  
World Campus

402  
Ph.D.



## ACADEMIC RANKINGS

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

Undergraduate program rankings:

- Petroleum Engineering, 5th
- Materials Engineering 10th

Graduate program rankings:

- Environmental Sciences, 2nd
- Geochemistry, 3rd
- Geology, 3rd
- Earth Sciences, 6th
- Petroleum Engineering, 7th
- Paleontology, 7th
- Geophysics and Sedimentology, 9th
- 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 (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
- Human Dimensions of Natural Resources and the Environment
- Operations Research
- Women's 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

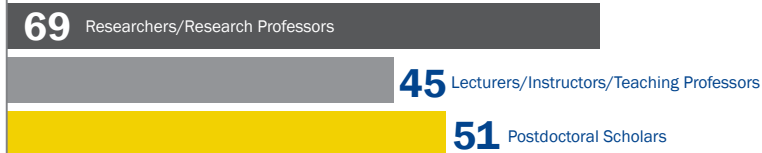


## Faculty

### 136 TENURED/TENURE-TRACK



### 165 NON-TENURE-TRACK



## RESEARCH

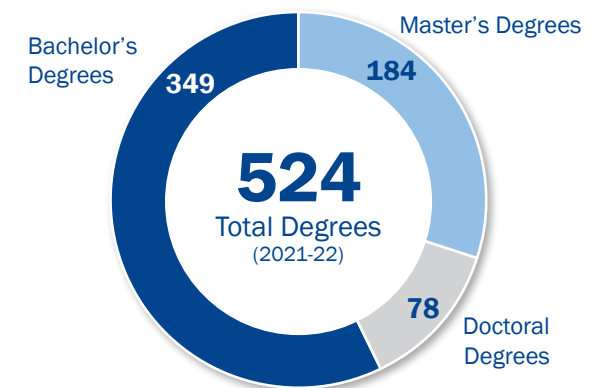
In the most recent rankings released by the National Science Foundation of total research expenditures for science and engineering, many of the college's programs are highly ranked:

- 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  
 510 Eric J. Barron Innovation Hub  
 123 S. Burrowes Street  
 State College, PA 16801  
[www.ems.psu.edu](http://www.ems.psu.edu)

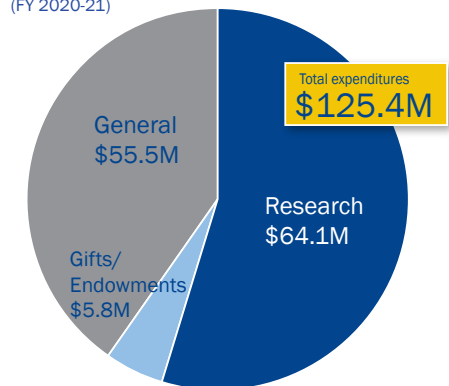
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## Degrees Awarded



## Expenditures

(FY 2020-21)



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 College of Earth  
 and Mineral Sciences