Dear EMS community,

I am pleased to share this report of EMS research activities and graduate education for fiscal year 2020. In 2019-20, EMS research expenditures totaled $70.79 million. Penn State’s expenditures exceeded the billion-dollar mark, and external research awards remained strong, even with interruptions created by COVID-19. This demonstration of endurance is simply remarkable. Our interdisciplinary character gives us an amazing ability and opportunity to work together, committed to inclusiveness and the advancement of research activities that are essential to a vigorous program of graduate education. We awarded more than 200 graduate degrees in 2019-20 and online education is on a path of sustained growth. Funding from federal agencies accounts for approximately 68% of our annual research expenditures. From advancing materials research, to addressing grand challenges in energy and environment, to improving health and human rights, EMS’s research enterprise is devoted to expanding the bounds of knowledge and developing transformational solutions at the interface of our disciplines and society. We are a college with a proud history and exciting future, shaped by the collective effort of our students, faculty, staff and administrators, which we continue to build upon.

Zuleima Karpyn
Associate Dean for Graduate Education and Research

PennState
College of Earth and Mineral Sciences
ADGER At-A-Glance, FY20

- **303** Proposals Submitted
- **$141M** Total Amount of Proposals
- **241** Awards Received
- **$39.6M** Total Amount of Awards
- **3** Invention Disclosures Submitted
- **31** U.S. Patents Issued
- **$71M** Total Research Expenditures
- **7** NSF Graduate Research Fellows
Total Research Expenditures, 2011-20

In millions of dollars

- Managed by EMS
- Managed by other units
Awards managed by EMS by Funding Source, 2011-20

In millions of dollars

Federal
Universities
Industry
State
Nonprofit
Foreign
Other
Expenditures from Federal Agencies managed by EMS, FY20

In millions of dollars

$25.2M
TOTAL FEDERAL EXPENDITURES IN 2020

- NSF 40%
- DOE 23%
- NASA 16%
- DOD 9%
- DOC 5%
- Other Nat. Labs 3%
- Nat. Labs 3%
Graduate Degrees Conferred, 2011-20

203 GRADUATE DEGREES IN 2020

PhD, MS, WC

PennState College of Earth and Mineral Sciences
Graduate Student Enrollment, 2011-20
Graduate Enrollment by Academic Department

806 GRADUATE STUDENTS IN 2020

- GEOSC 10%
- GEOG 7%
- GEOG-WC 27%
- MATSE 26%
- EME 10%
- METEO 9%
- EME-WC 10%
- GEOSC-WC 1%
Contacts

Zuleima Karpyn
Associate Dean for Graduate Education & Research
814-863-2273
ztk101@psu.edu

Karen Royer
Administrative Coordinator
814-863-2053
klr9@psu.edu

Graduate Education
Jaime Harter
Administrative Coordinator
814-865-5709
jla20@psu.edu

Research Administration
Jennifer Lear
Grants & Contracts Manager
814-865-7650
qul48@psu.edu

Tammy Fetterolf
Proposal & Awards Generalist
814-865-6506
tbb2@psu.edu

Chris Woods
Proposal & Awards Generalist
814-865-6453
cnw2@psu.edu

Myava Thibault-Cuhel
Proposal & Awards Generalist
814-865-1091
met35@psu.edu

Melissa Brannen
Proposal & Awards Generalist
814-863-2589
mlr28@psu.edu

Brandy Bower
Proposal & Awards Generalist
814-865-9787
bvb2@psu.edu

Nadine Briskar
Proposal & Awards Generalist
814-865-6505
nrl2@psu.edu

Faculty Awards
Diane Ault
Administrative Assistant
814-865-7659
dla17@psu.edu

Facilities & Safety
Frank Driscoll
Facilities Manager & Safety Officer
814-867-2499
fjd3@psu.edu

PennState
College of Earth and Mineral Sciences

248 Deike Building
University Park, PA 16802-5010
https://www.ems.psu.edu/adger