

Annual Report of Research Activity and Graduate Education

Office of the Associate Dean for
Graduate Education and Research
Fiscal Year 2020



PennState
College of Earth
and Mineral Sciences

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

31

INVENTION
DISCLOSURES
SUBMITTED

\$71M

TOTAL
RESEARCH
EXPENDITURES

241

AWARDS
RECEIVED

\$39.6M

TOTAL
AMOUNT OF
AWARDS

3

U.S. PATENTS
ISSUED

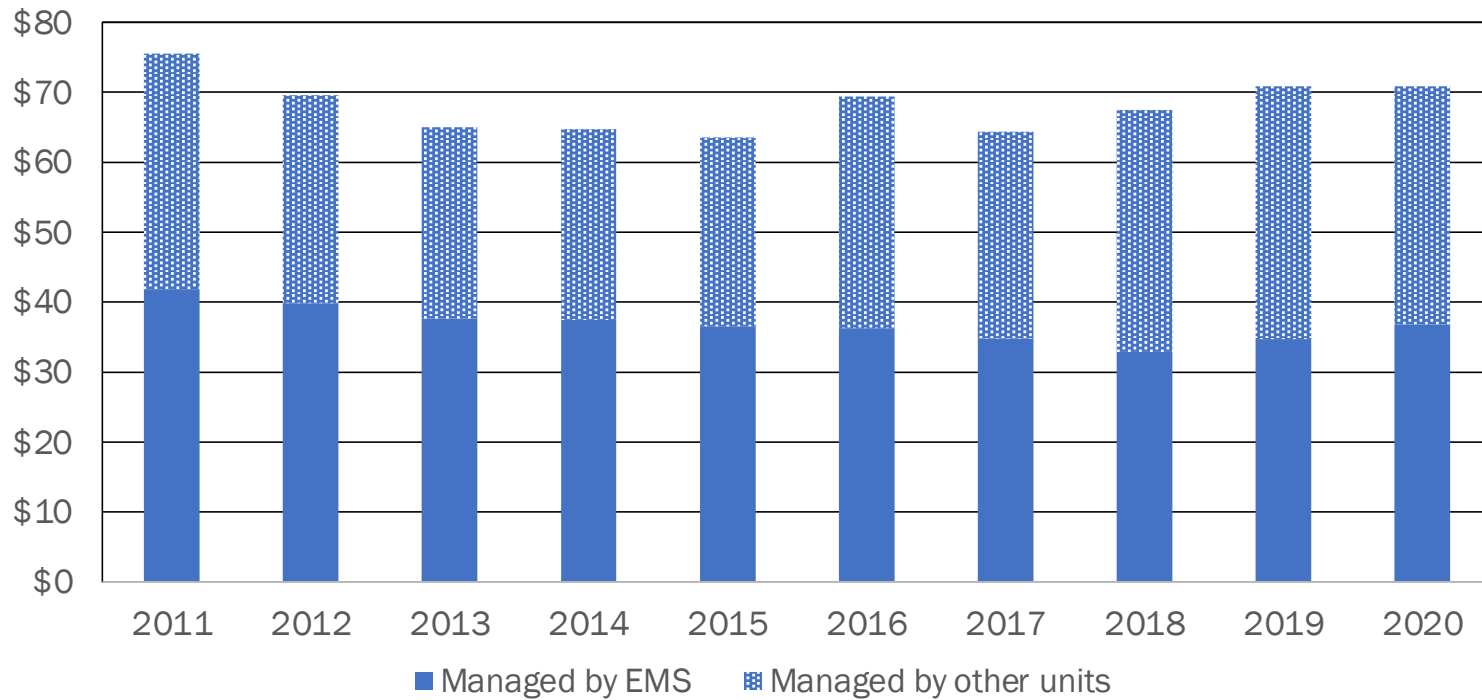
7

NSF GRADUATE
RESEARCH
FELLOWS



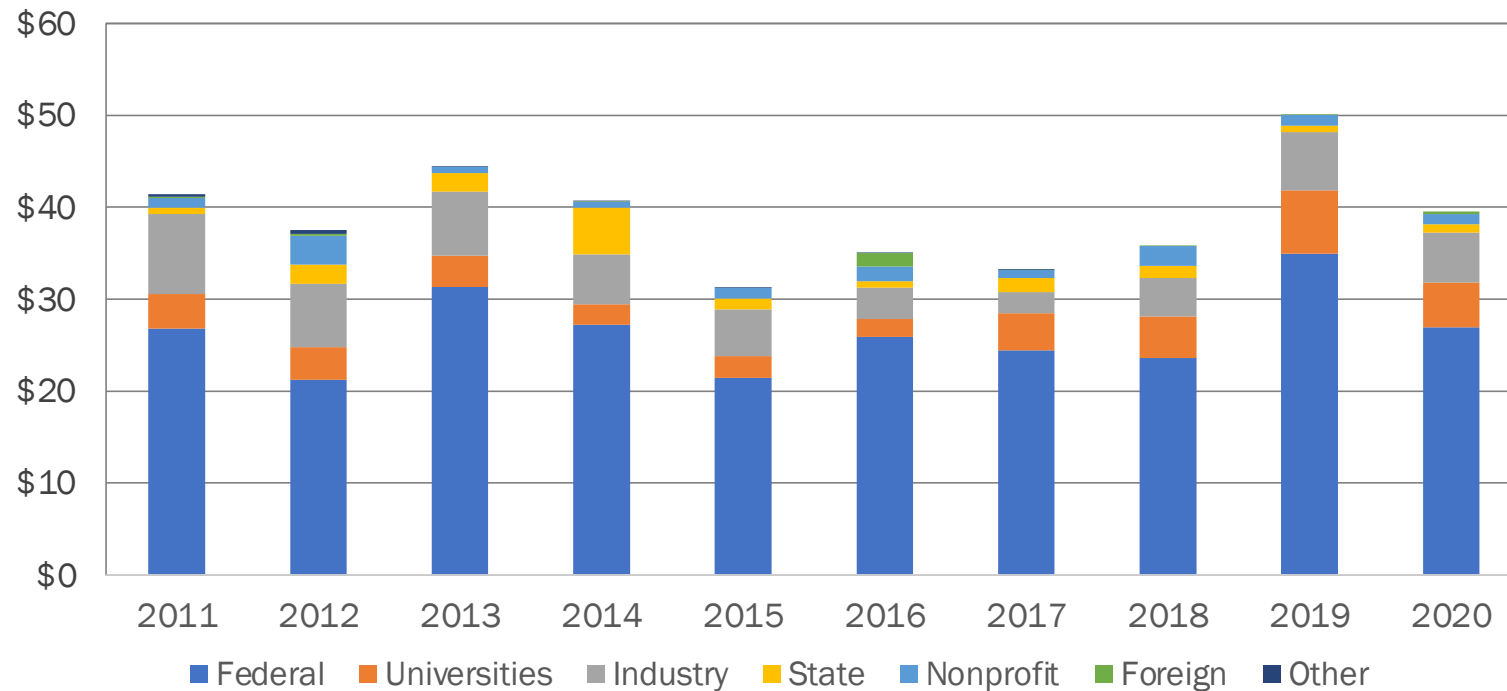
Total Research Expenditures, 2011-20

In millions of dollars



Awards managed by EMS by Funding Source, 2011-20

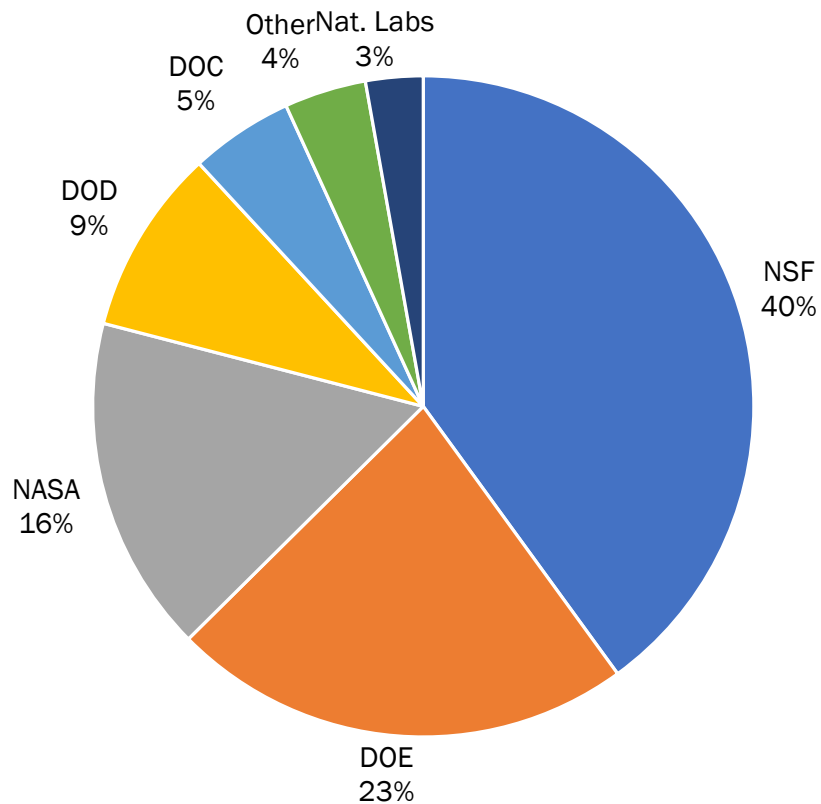
In millions of dollars



Expenditures from Federal Agencies managed by EMS, FY20

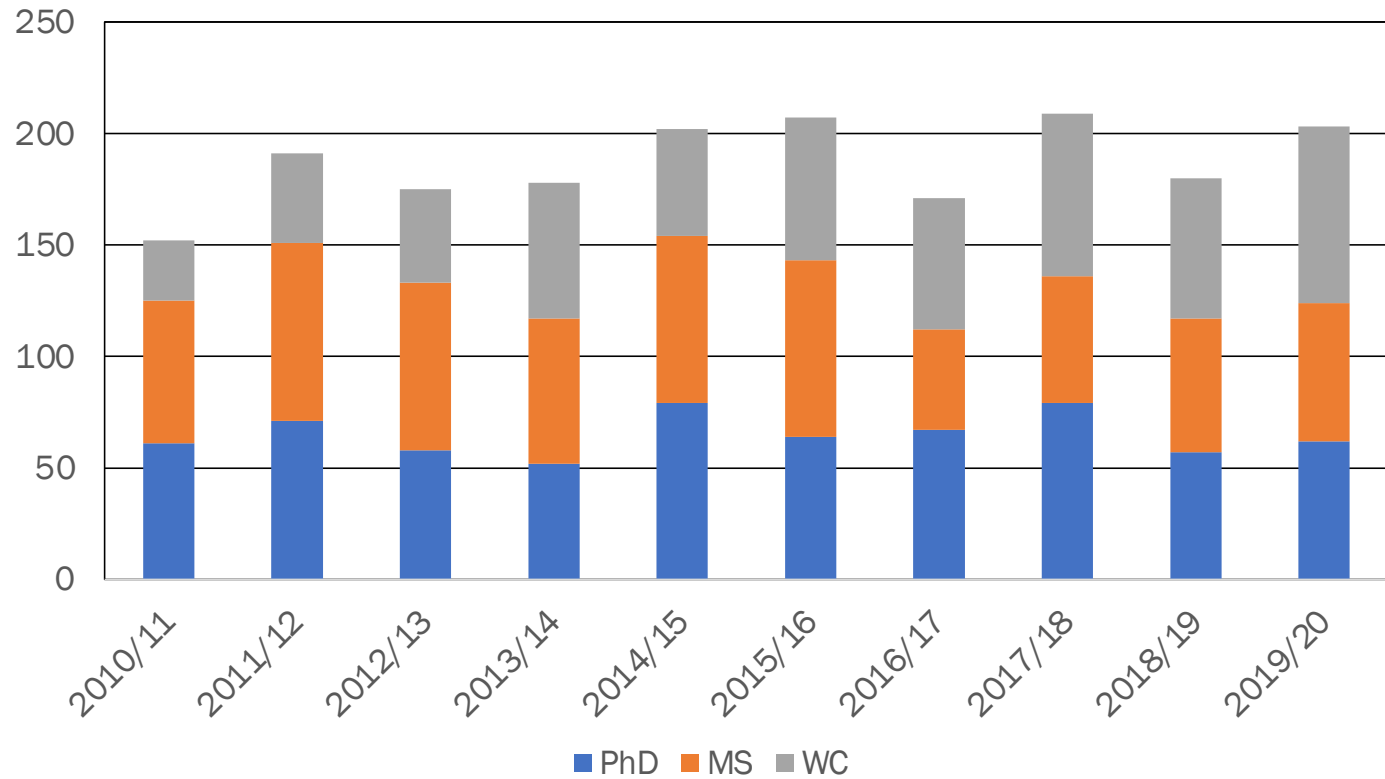
In millions of dollars

\$25.2M
TOTAL FEDERAL
EXPENDITURES
IN 2020

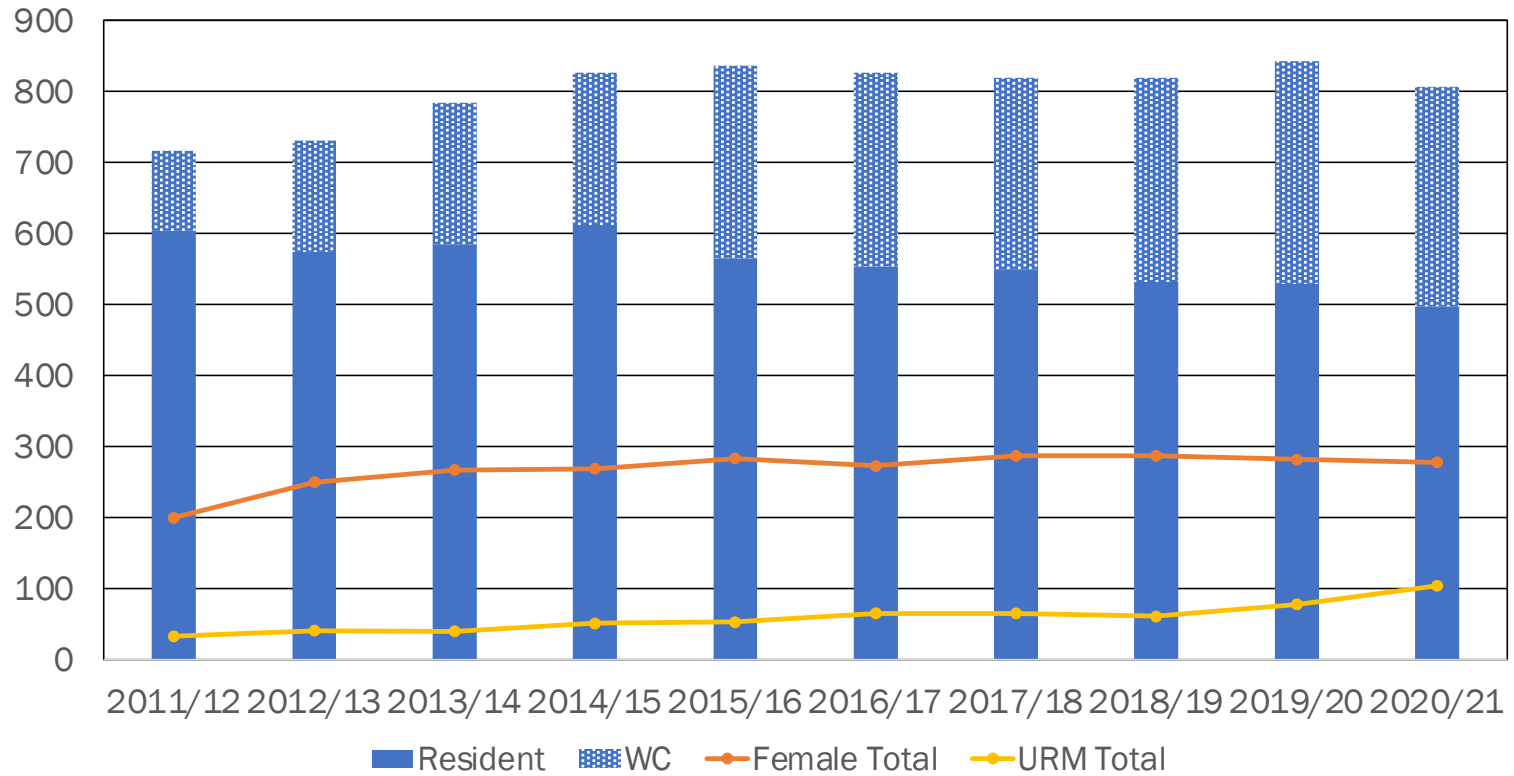


Graduate Degrees Conferred, 2011-20

203
GRADUATE
DEGREES
IN 2020

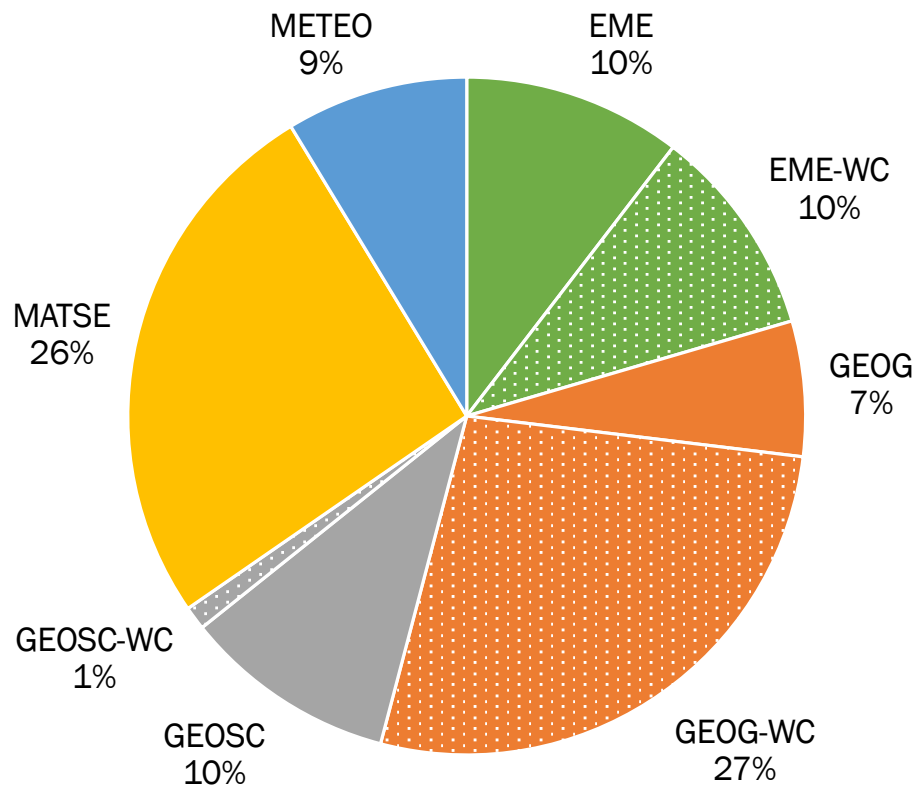


Graduate Student Enrollment, 2011-20



Graduate Enrollment by Academic Department

806
GRADUATE
STUDENTS
IN 2020



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

Facilities & Safety

Frank Driscoll
*Facilities Manager & Safety
Officer*

814-867-2499
fjd3@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



PennState
College of Earth
and Mineral Sciences

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