



OVPR OUTREACH: HIGHLIGHTS OF NEW RESEARCH COMMUNICATION

- FY 18 Annual Report, Accelerating Discovery, is now available: https://wmich.edu/research
- Monthly funding alert email is sent out to faculty members, with an open rate averaging 60%. Register at https://wmich.edu/research/funding/faculty
- Monthly Research and Innovation newsletter emailed out to all faculty and to an additional 816 subscribers with a 52 to 63.6% open rate. Register at https://wmich.us16.list-manage.com/subscribe?u=2ebf8765408b5e35a023ea9c1&id=8dc2493813

HIGHLIGHTED NEW GRANTS

- Lori Wingate, The Evaluation Center. "EvaluATE: Evaluation Learning and <u>Research</u> Hub for Advanced Technological Education," National Science Foundation, \$4.9 million extended over five years.
- Jing Shen, Speech Language and Hearing Sciences, College of Health and Human Services. "Identifying the perceptual factors that contribute to older listeners' dynamic pitch benefit for speech recognition in noise," National Institute on Deafness and other Communication Disorders, NIH, \$439,238 extended over three years.

RECENT BOOKS AND PUBLICATIONS

- Famiano, Michael. Physics, College of Arts and Sciences. Creating the Molecules of Life. (2018).
- Pozo, Susan. Economics, College of Arts and Sciences. Editor.
 (2018). The Human and Economic Implications of Twenty-First Century Immigration Policy.
- Wendy Beane's journal article, "Weak magnetic fields alter stem cell-mediated growth," Science Advances, Jan, 30, 2019, Vol. 5, no. 1, eaau7201, appeared in Science Advances and has received media attention

Accelerating Discovery

appeared in <u>Science Advances</u> and has received <u>media attention</u>. Co-authors include four undergraduate and 3 graduate students at WMU in addition to colleagues at University of Colorado Boulder.

 Web of Science shows 599 articles, books and other scholarship at WMU in 2018.

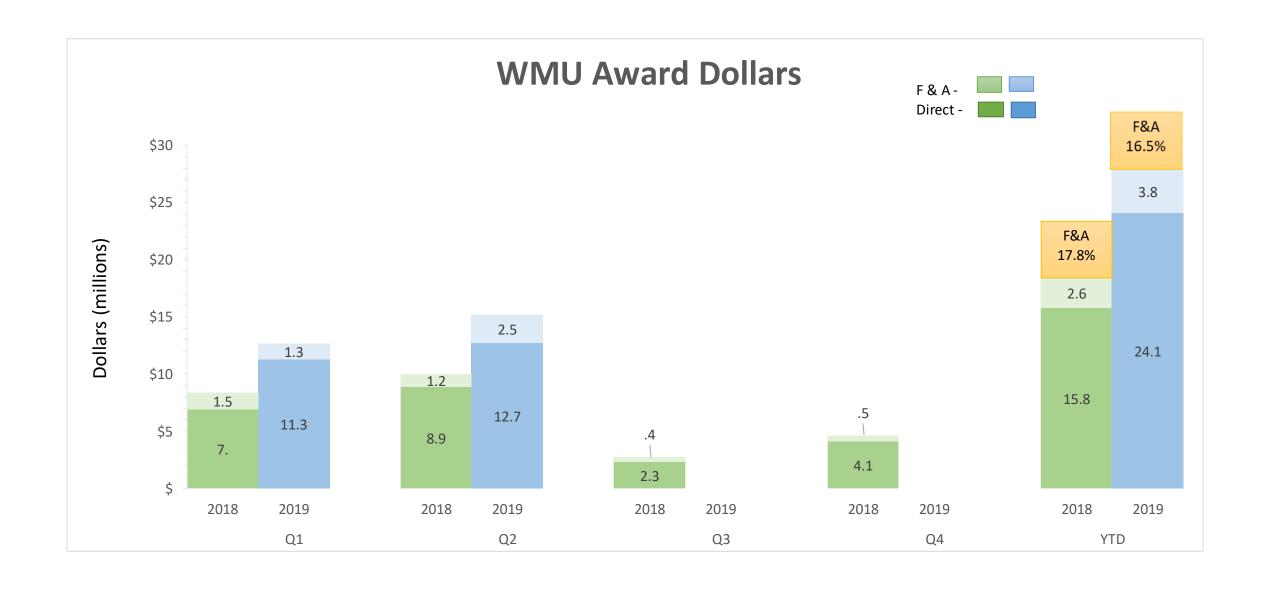
KEY NUMBERS

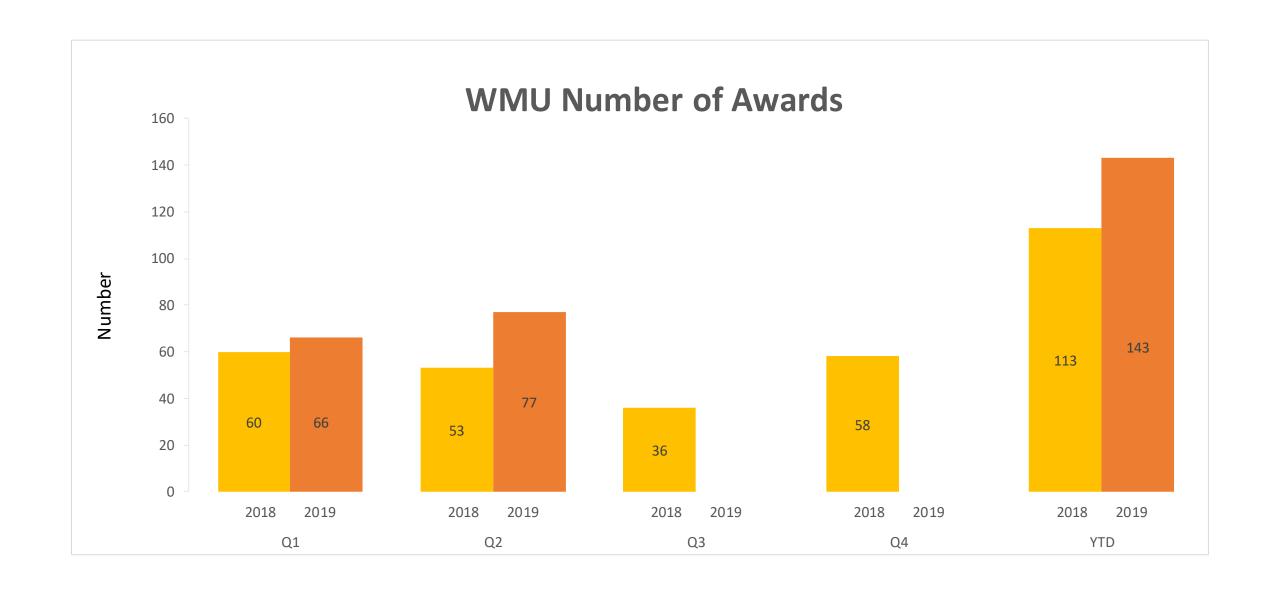
The FY 17 NSF Higher Education Research and Development Survey (HERD) published. Below are some highlights for WMU:

- WMU ranks 188 in research expenditures by public universities.
- Of both public and private universities (n=640), WMU ranks 249, with impressive rankings by fieldin all expenditures in
 - o geosciences, atmospheric and oceanic sciences: 171
 - o psychology: 169
 - o non-science and engineering (includes Education): 166
- Ranked 66 in federal expenditures in Education research

COLLABORATION / INTERNAL RESEARCH DEVELOPMENT

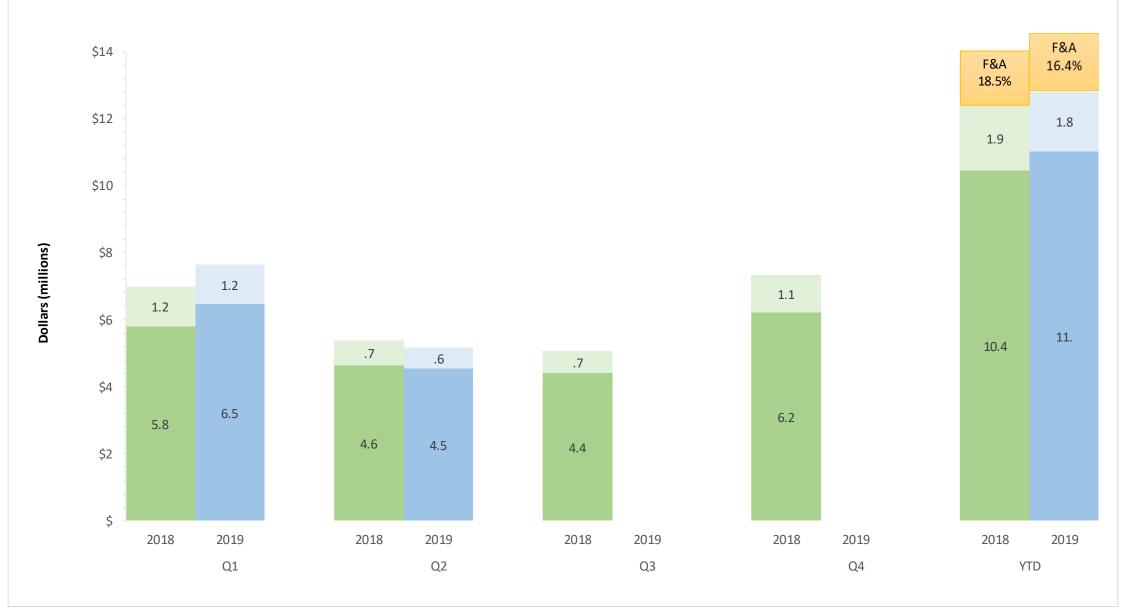
- OVPR sponsored its second Innovation Networking Session on PFAS and other emerging contaminants on Nov. 15, 2018, with 40 attending
- Kay Mortellaro was selected as WMU's first Research Development Administrator. In this role, Kay will focus on developing programing and opportunities to grow our research awards and expenditures.
- Spring Convocation is schedule for March 26 from 9 a.m. to 2 p.m. We will
 celebrate research excellence at WMU. Included in the day's schedule are two
 research symposia on education and sustainability.

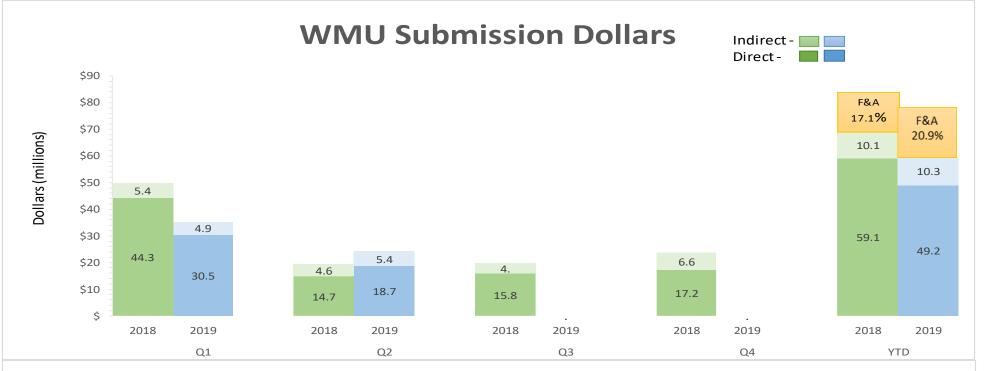


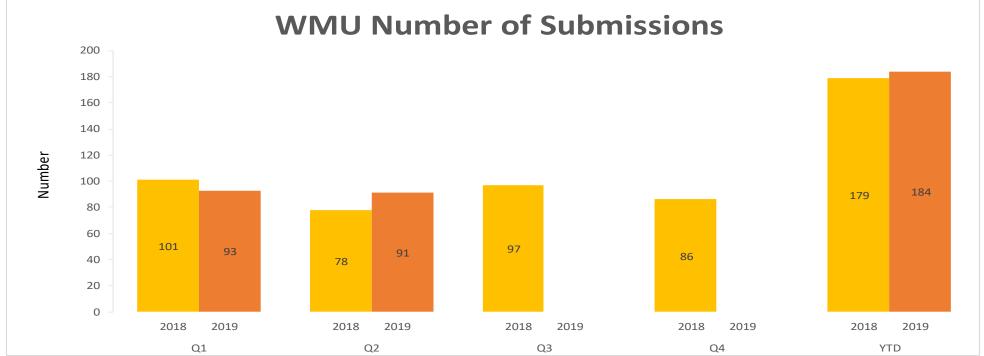


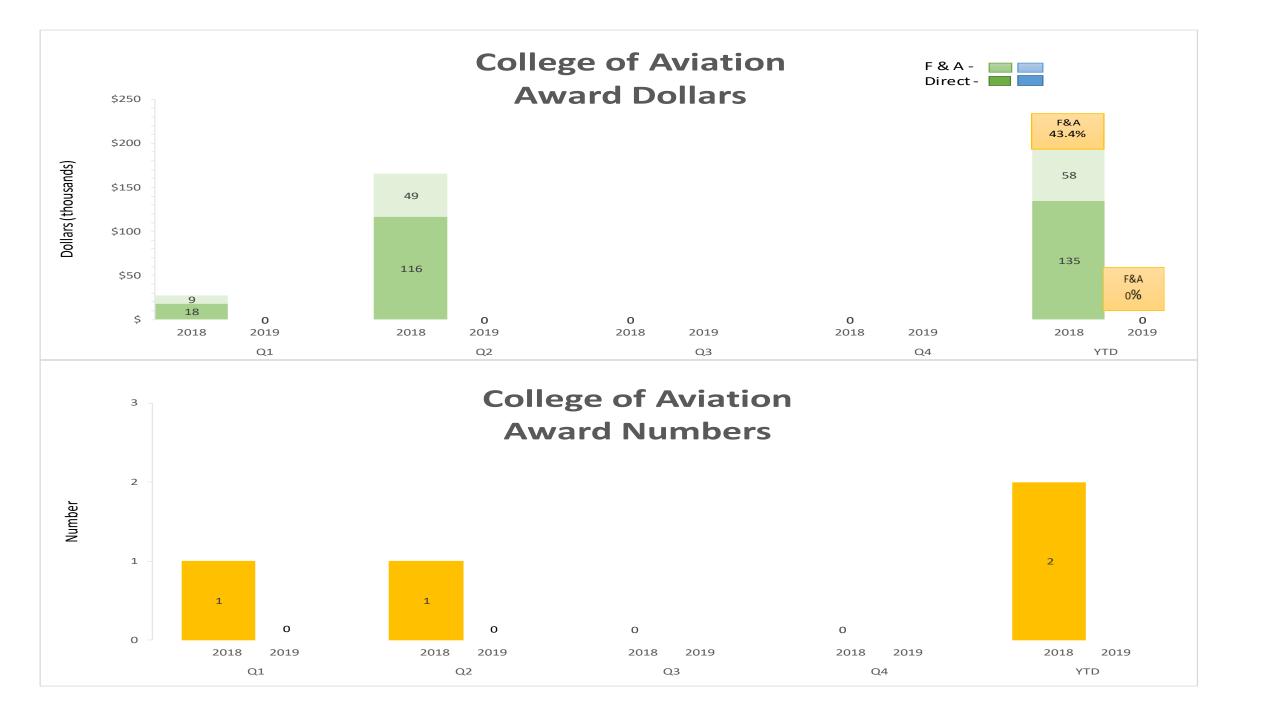
WMU Expenditure Dollars

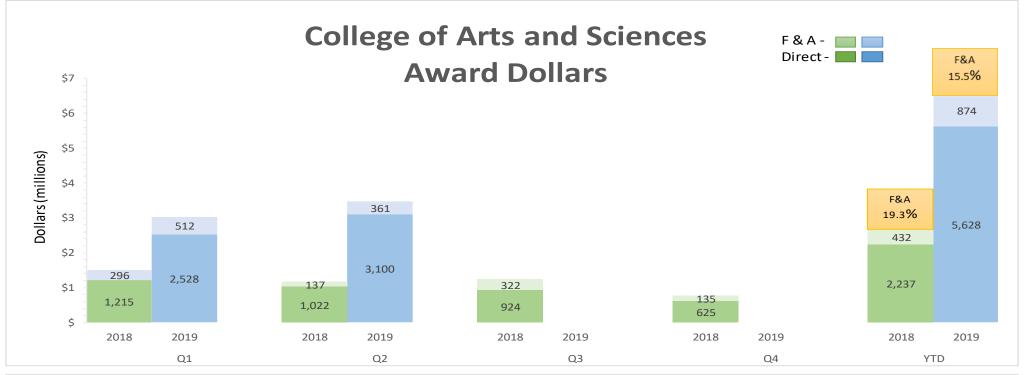


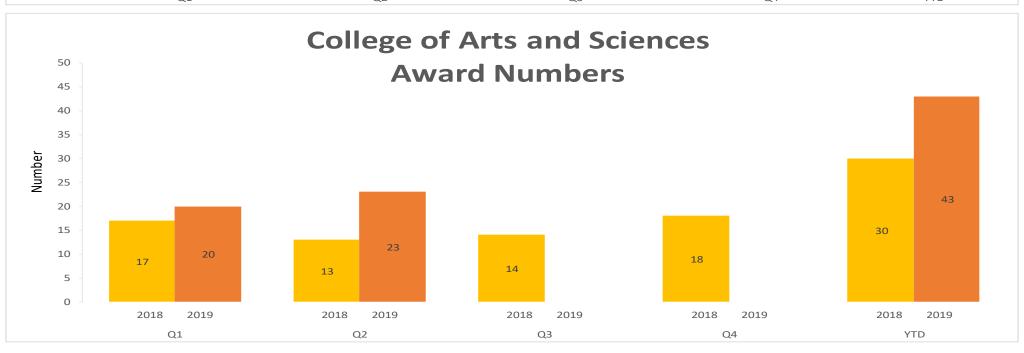


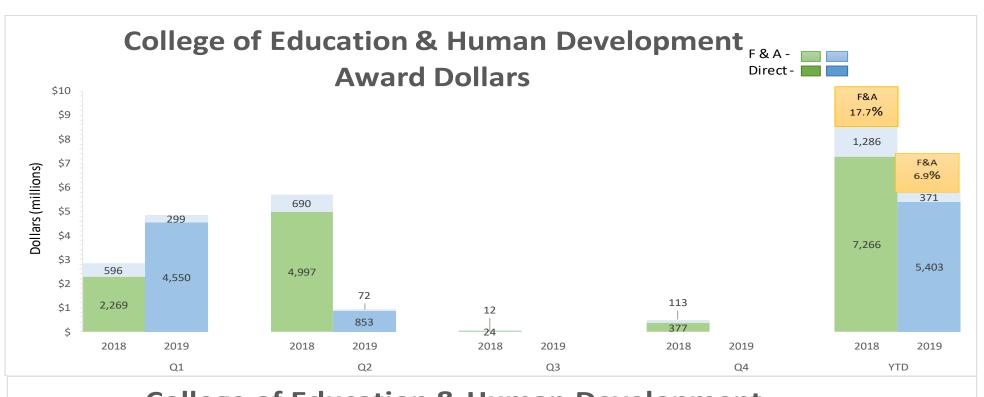


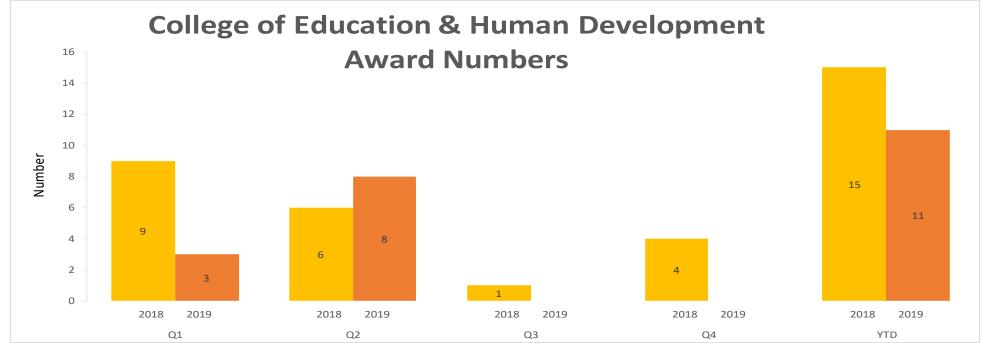


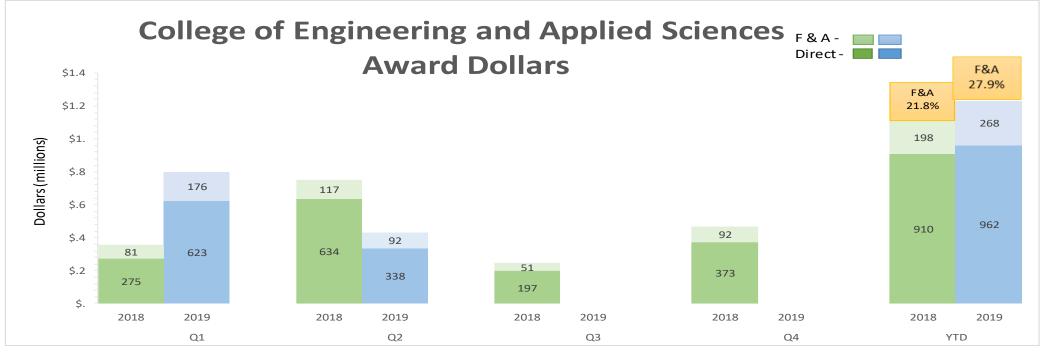


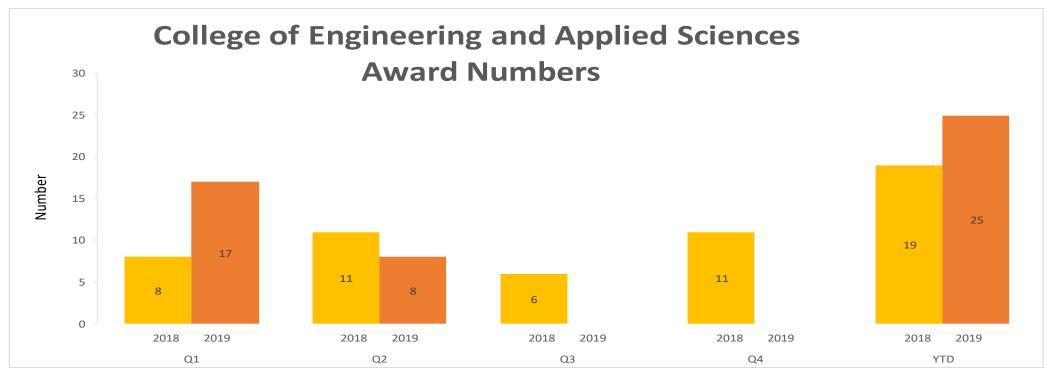


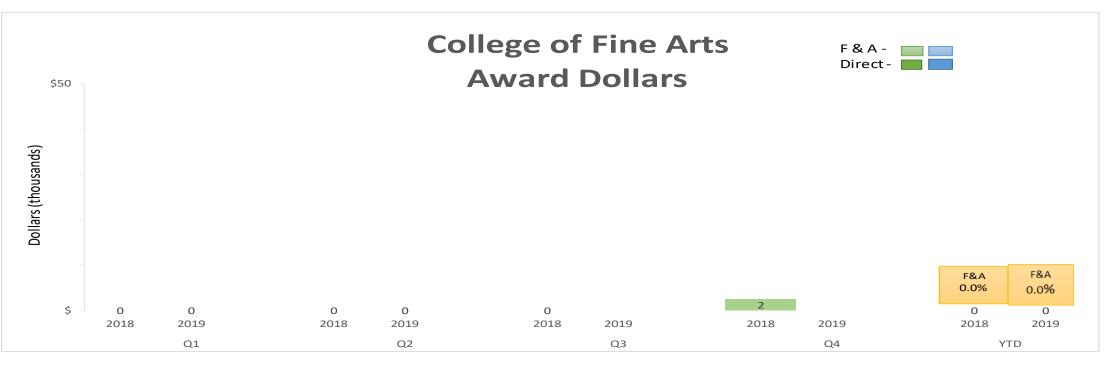


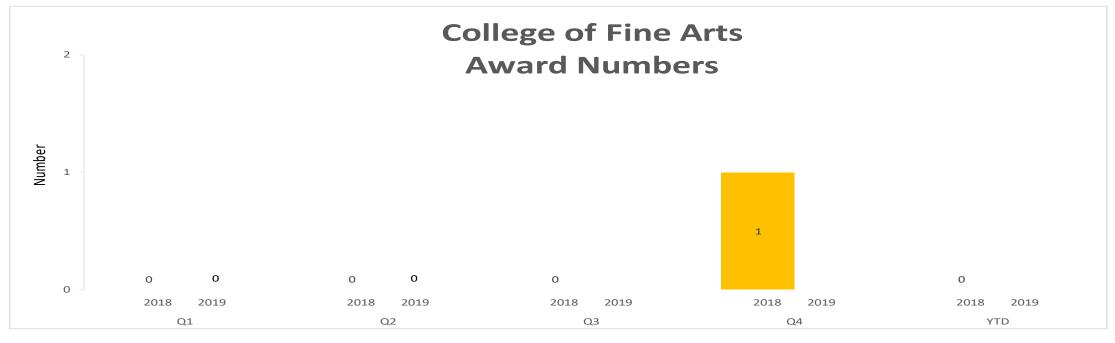


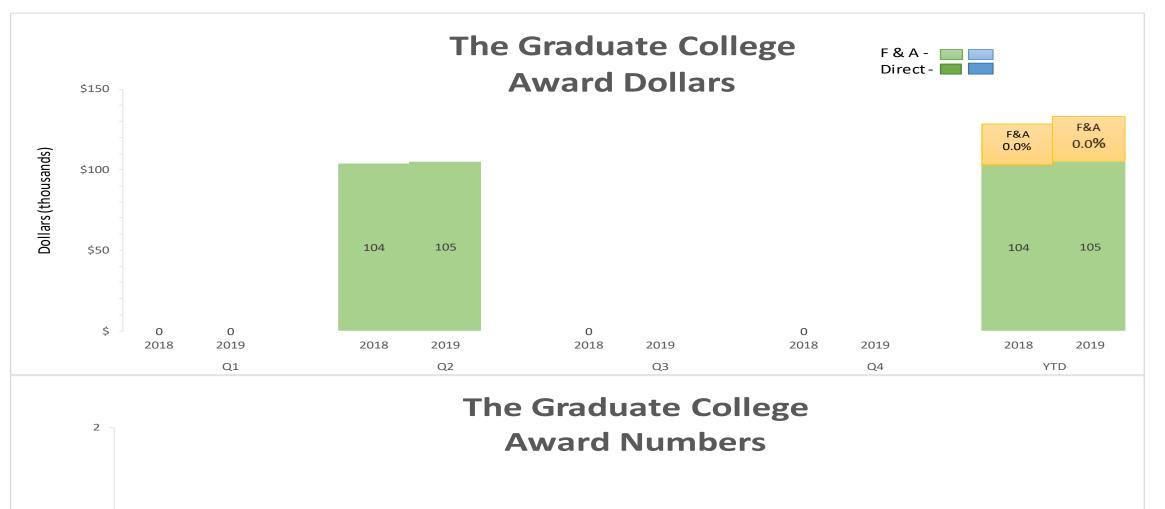


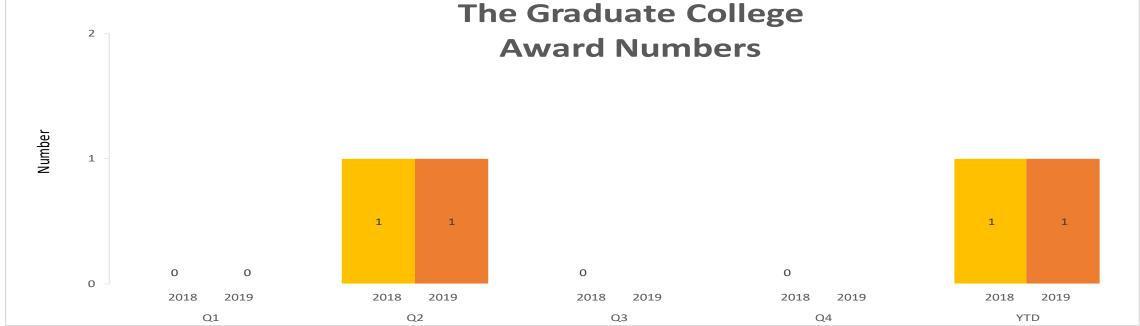


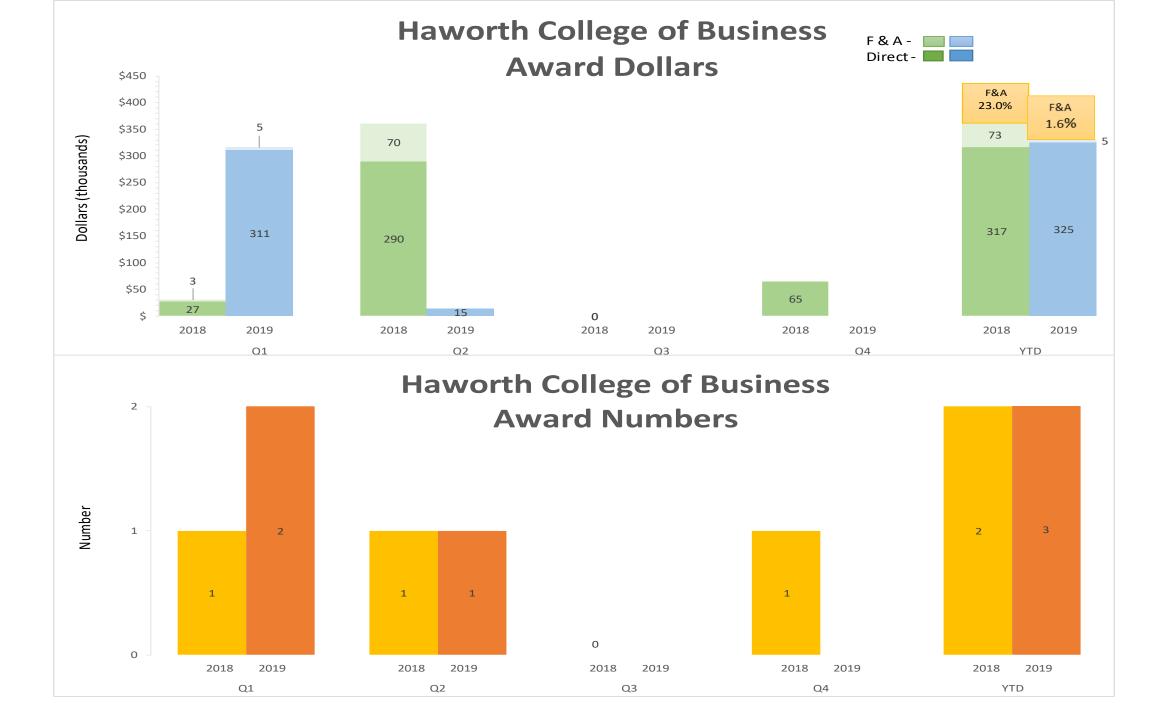


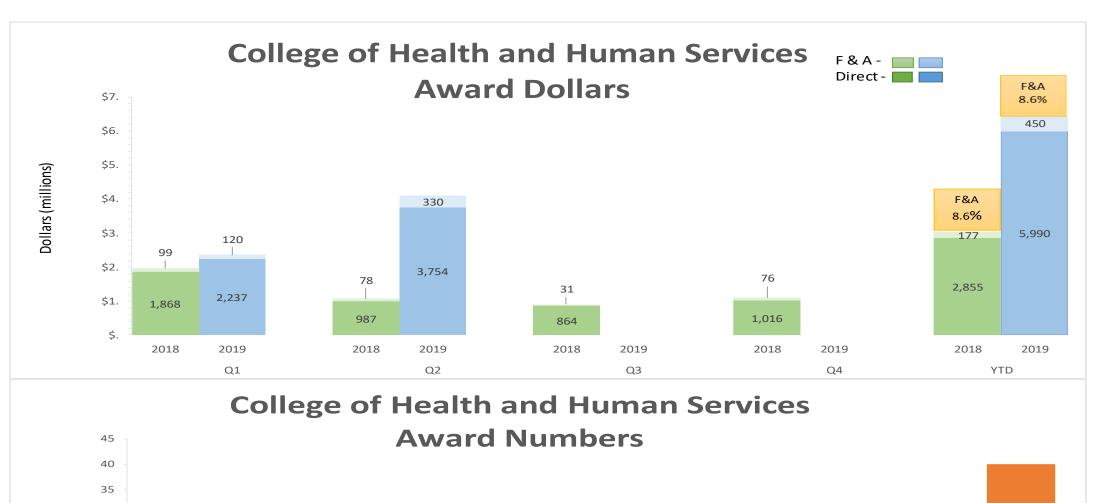


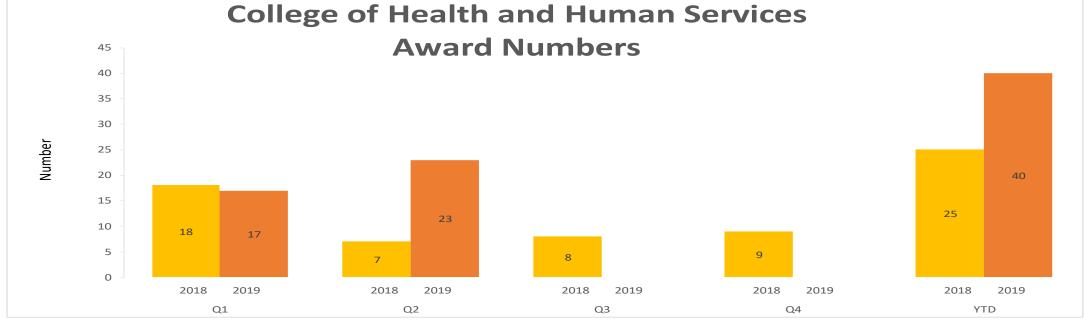


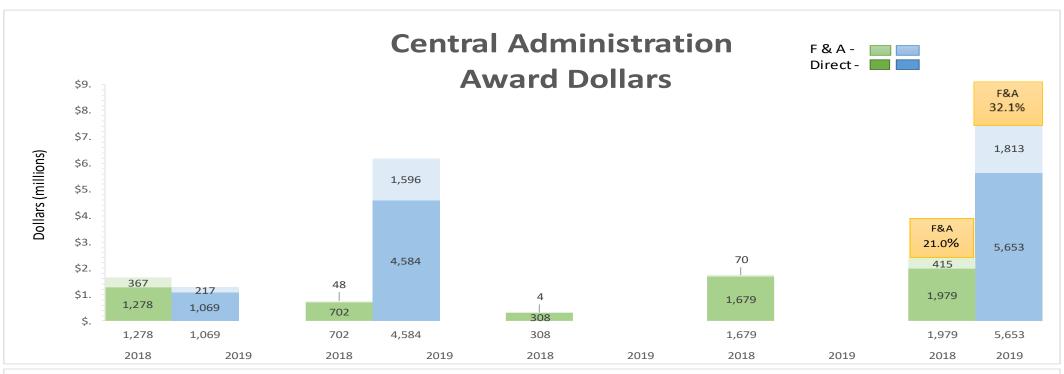


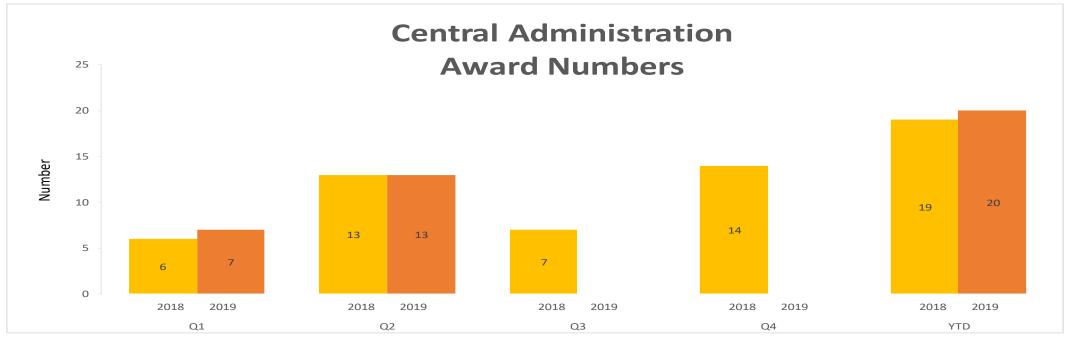






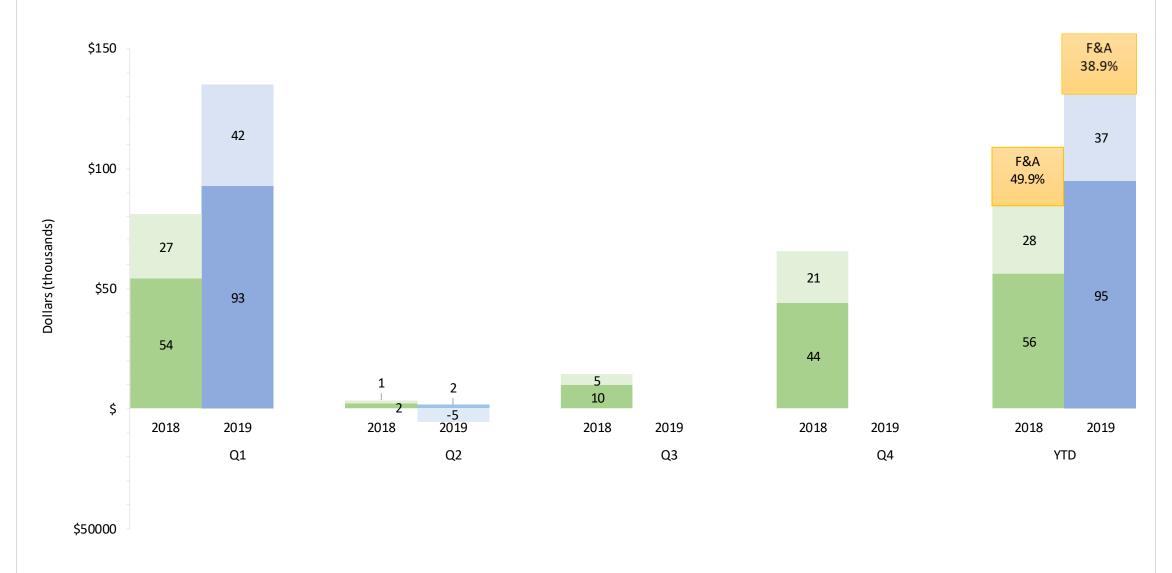






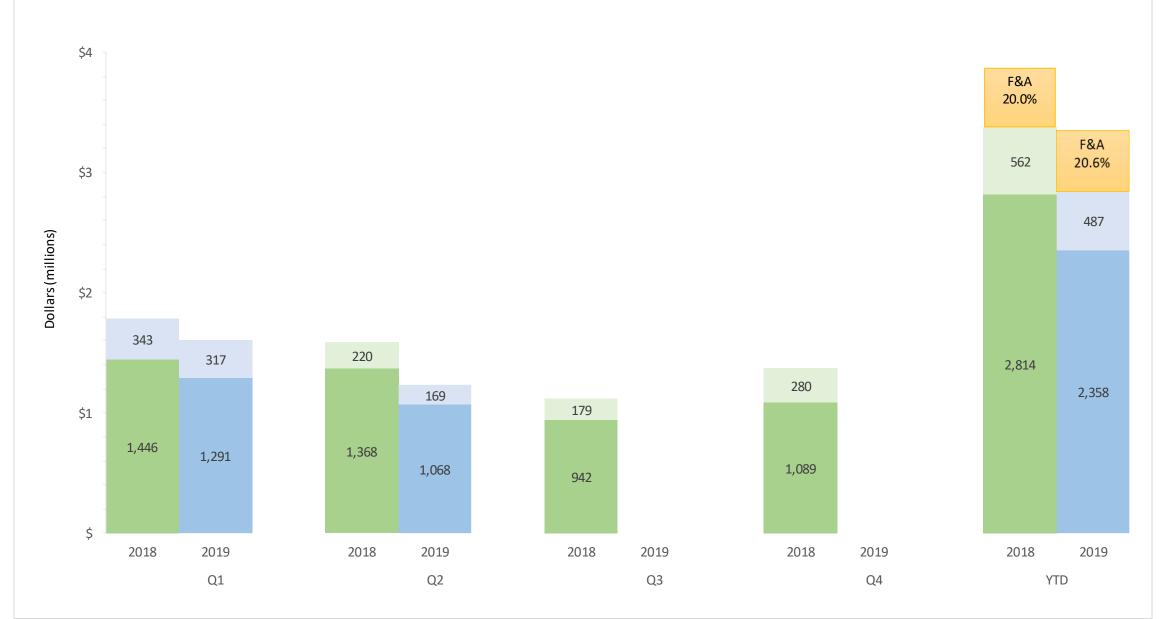
College of Aviation Expenditure Dollars





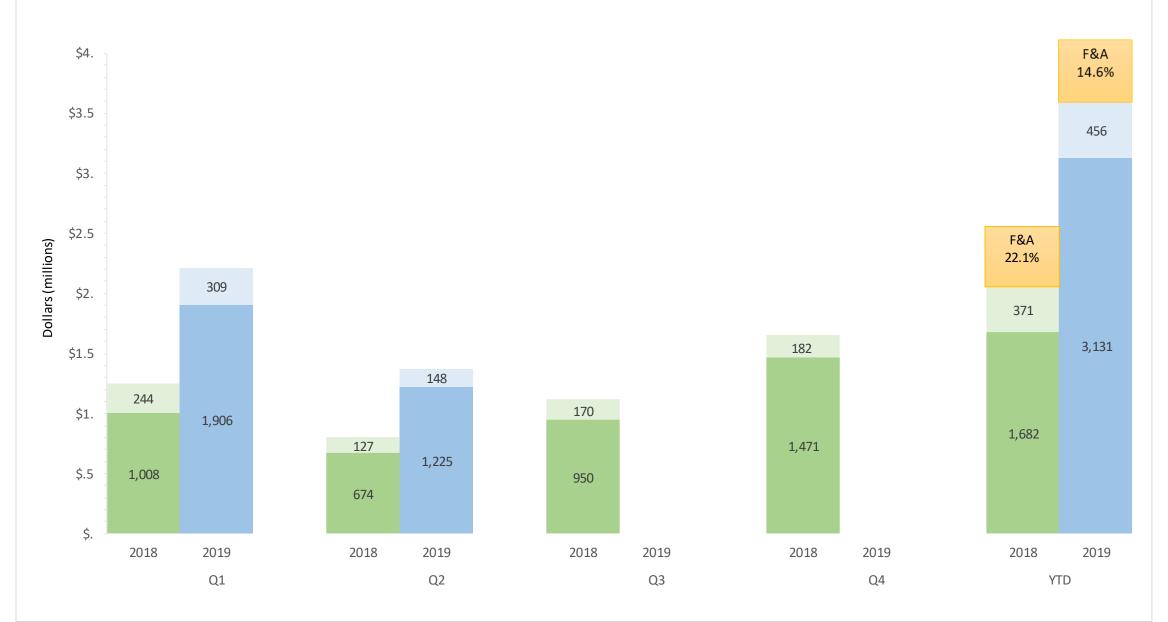
College of Arts and Sciences Expenditure Dollars





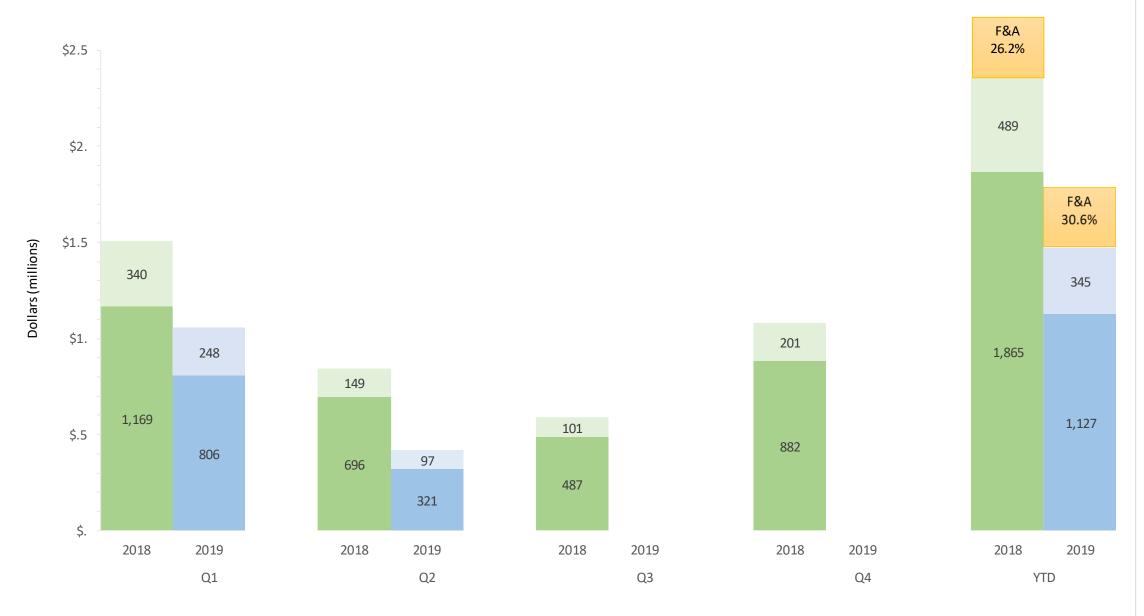
College of Education & Human Development Expenditure Dollars





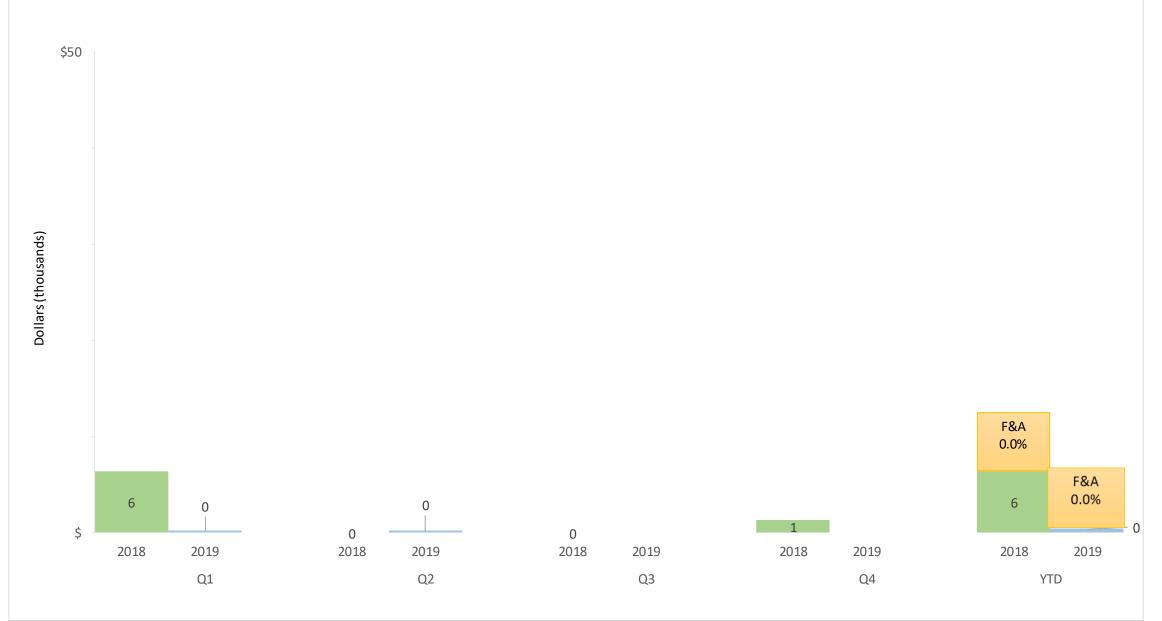
College of Engineering and Applied Sciences Expenditure Dollars





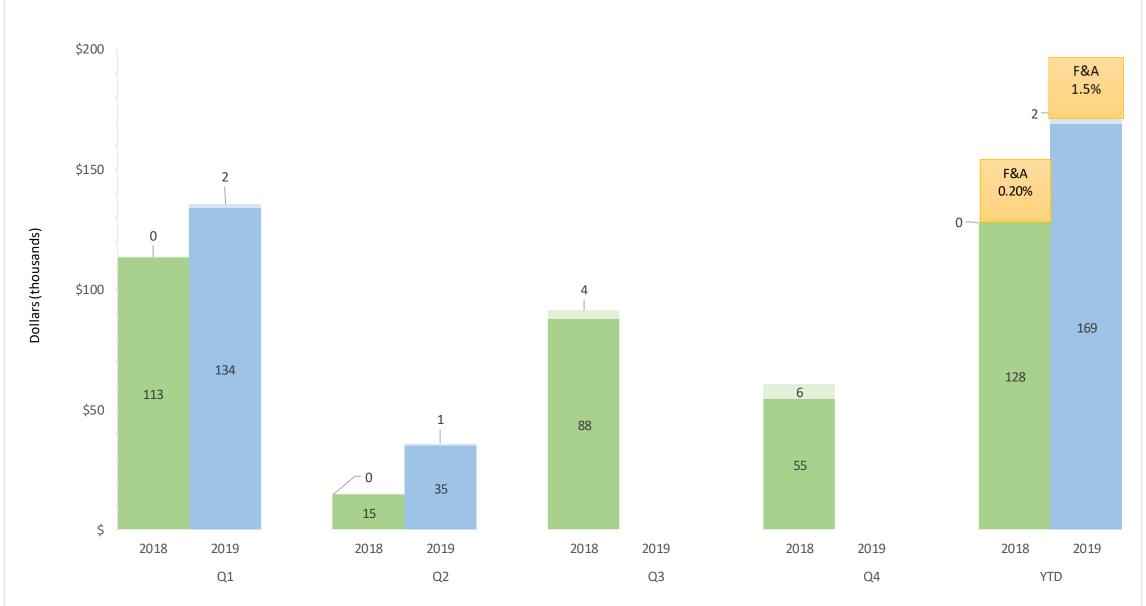






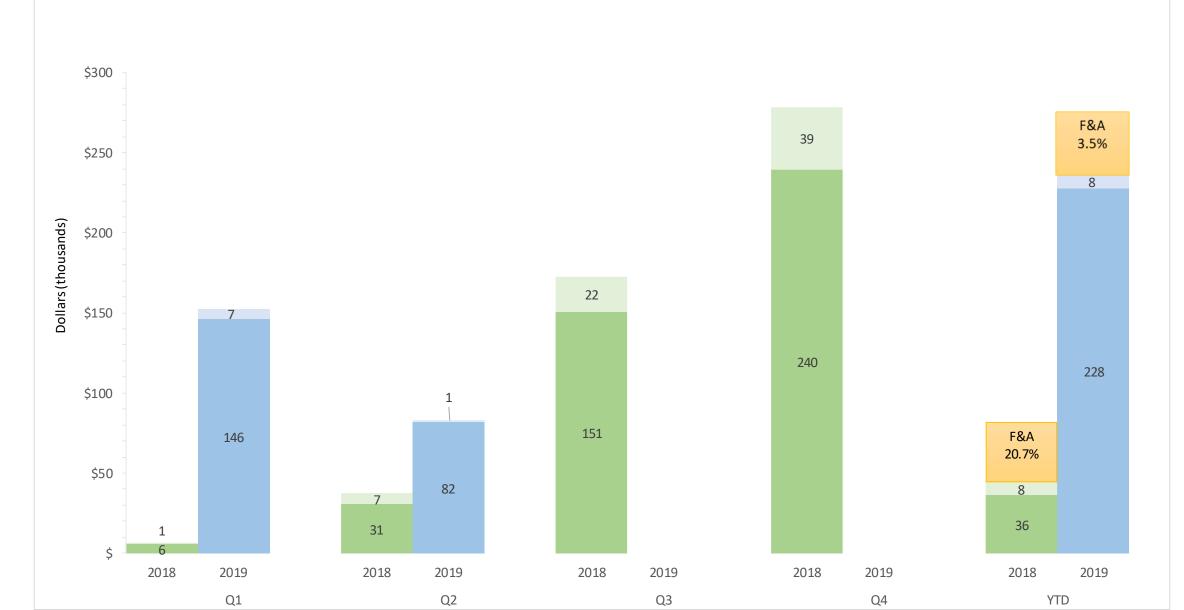






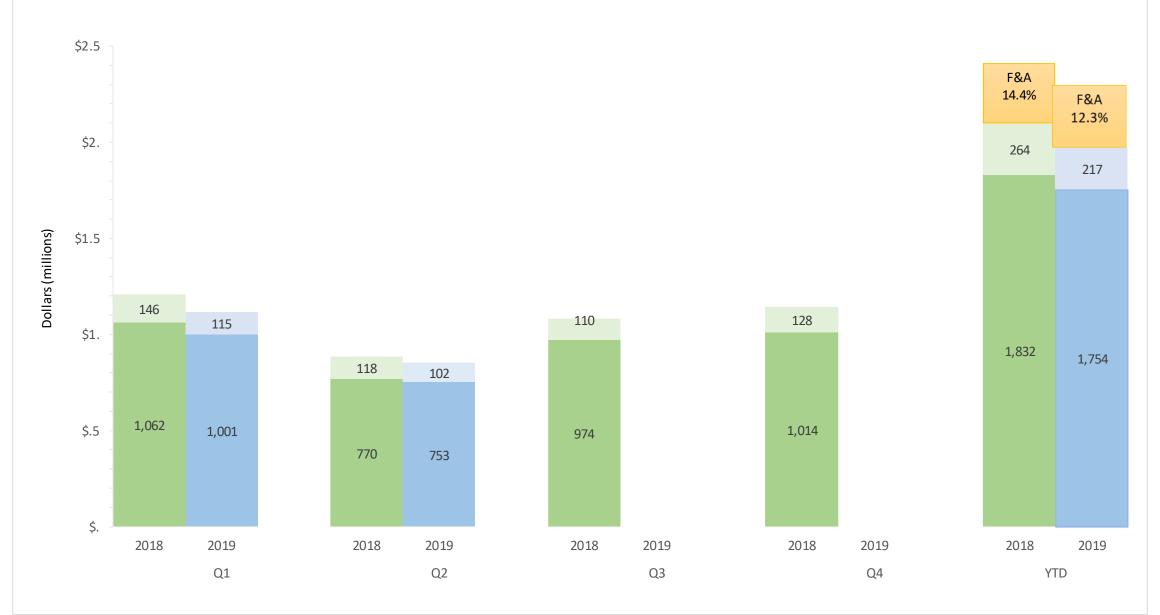




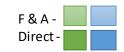


College of Health and Human Services Expenditure Dollars











WMU R&D Expenditure Report

Summary

By Funding Sponsor - WMU





Note: All (n= 644) includes Public (n=400) & Private (n=244) Universities

Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

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WMU R&D Expenditure - By Field

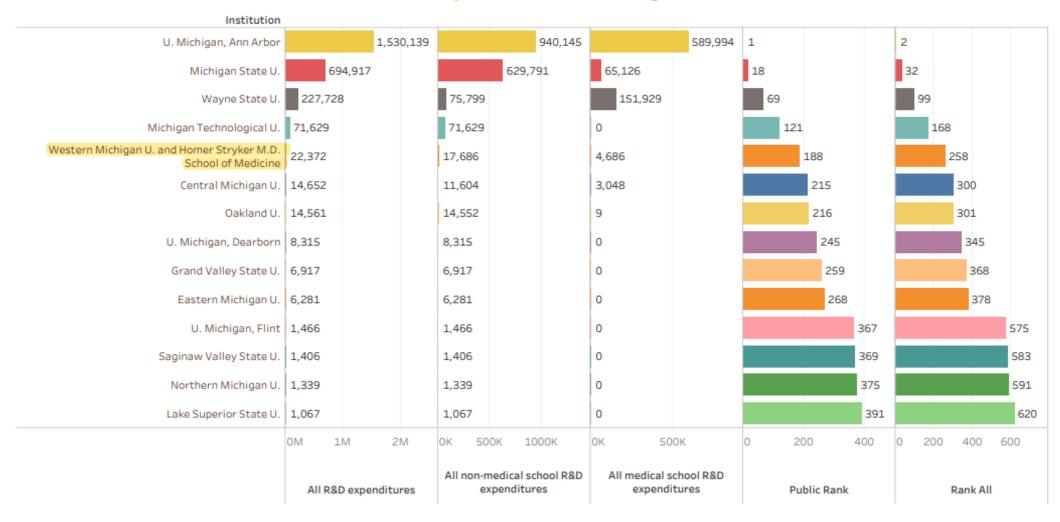


Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

Note: NSF doesn't provide official rankings by field. The ranking by field is generated by sorting the R&D expenditure by field.

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WMU R&D Expenditure - Michigan Peers

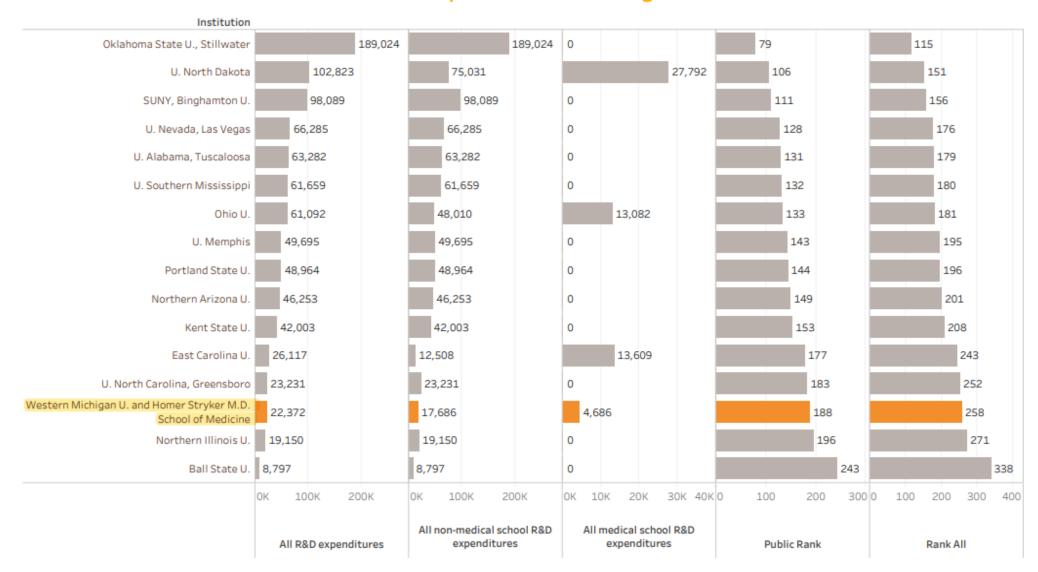


Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

Note: Ferris State U didn't report.

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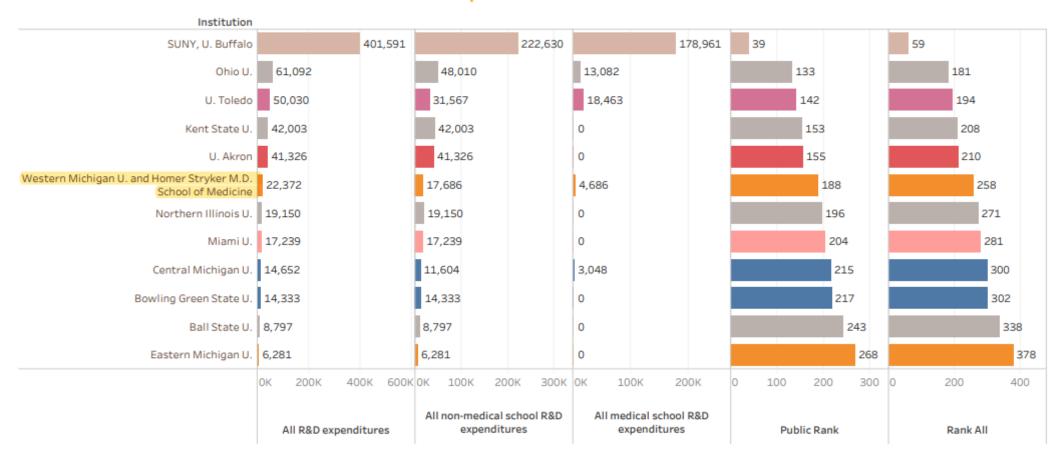
WMU R&D Expenditure - Carnegie Peers



Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

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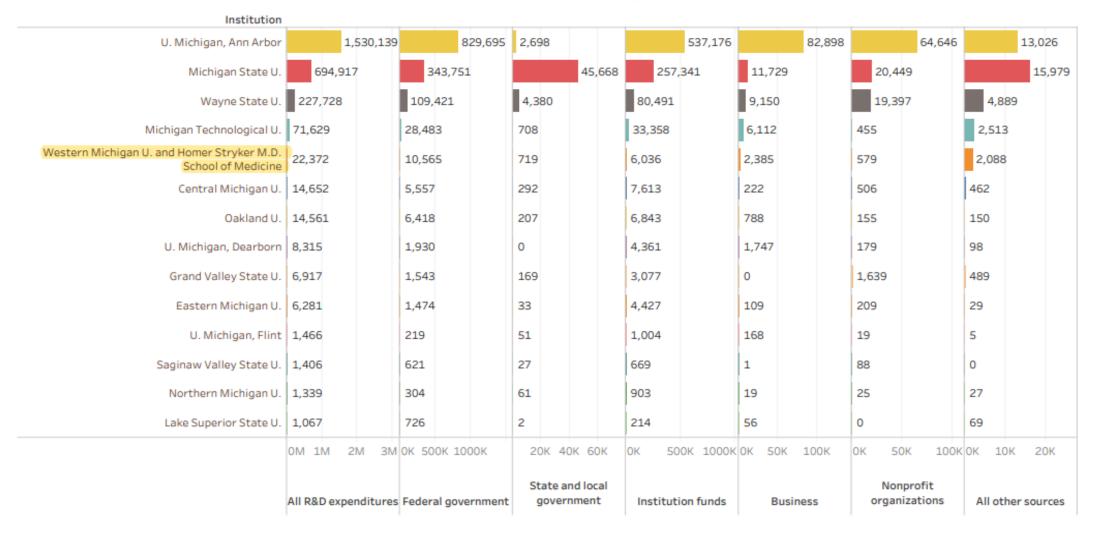
WMU R&D Expenditure - MAC Schools



Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

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By Funding Source - Michigan Schools

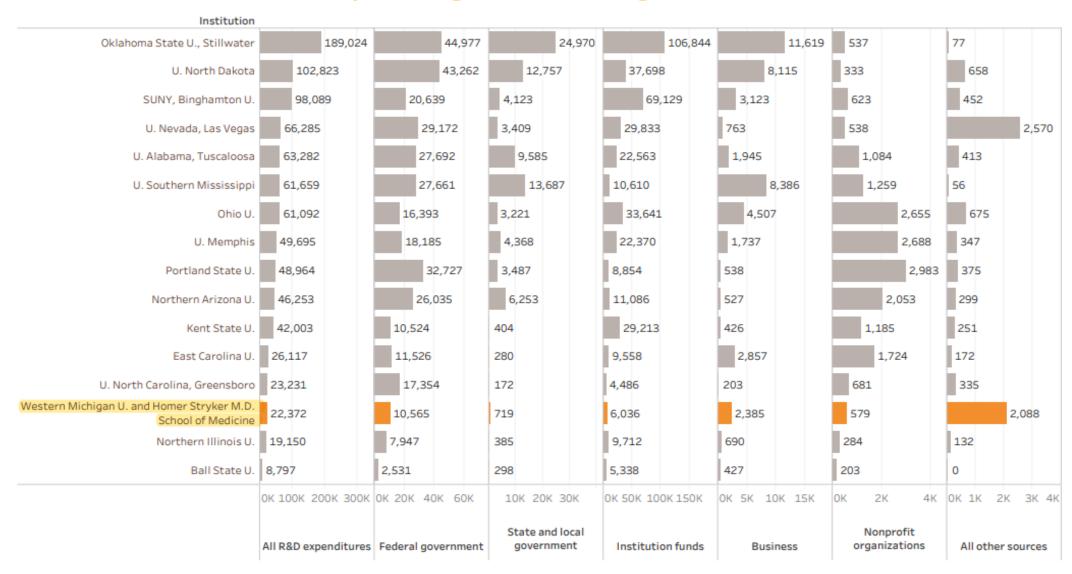


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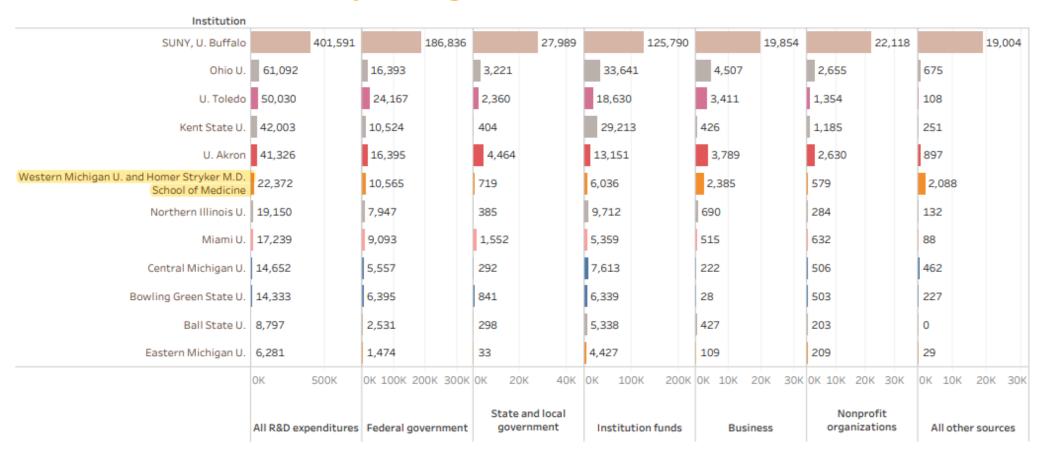
By Funding Source - Carnegie Peers



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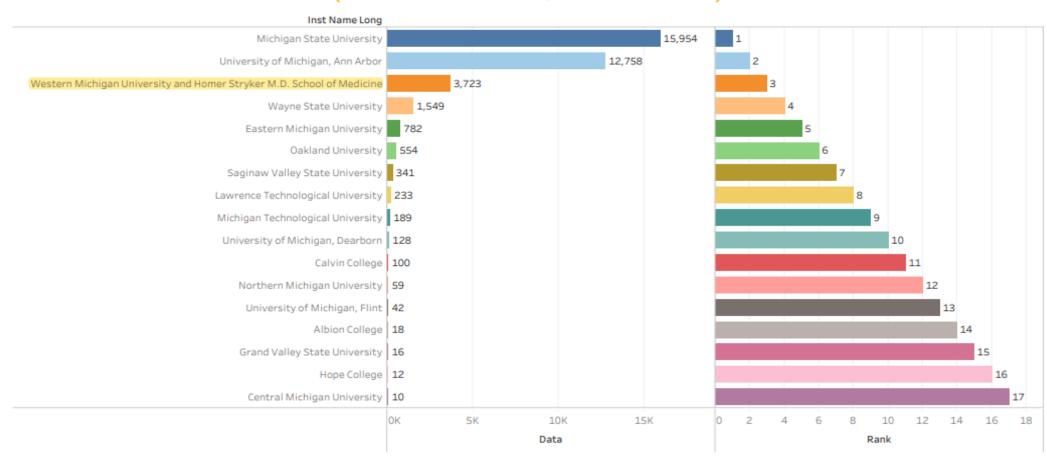
By Funding Source - MAC Schools



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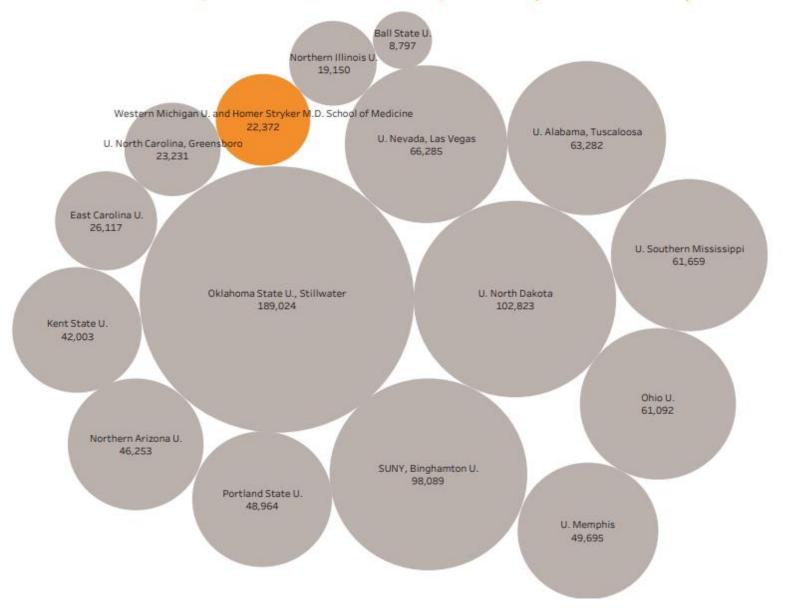
R&D Expenditure - Education (National Rank = 93, State Rank = 3)



Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

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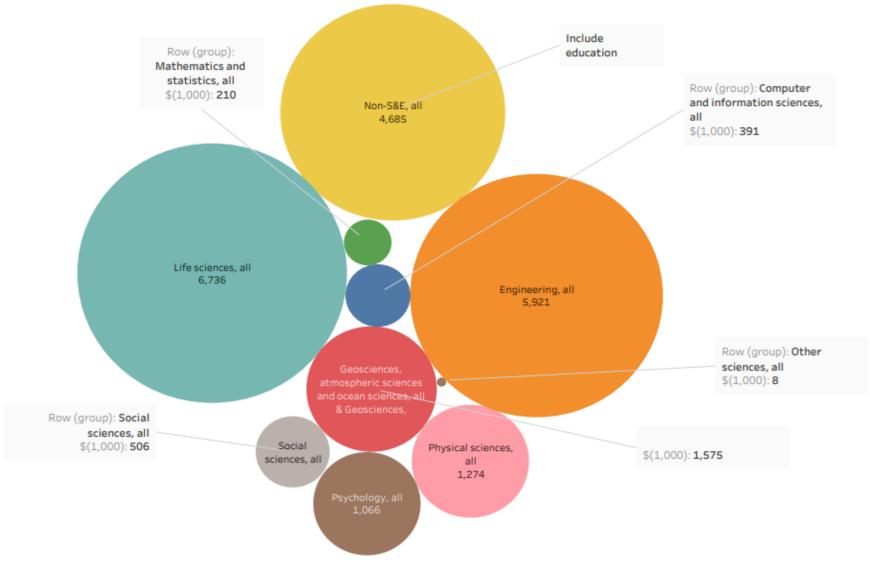
All R&D Expenditure - Peer Comparison (Relative Size)



Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

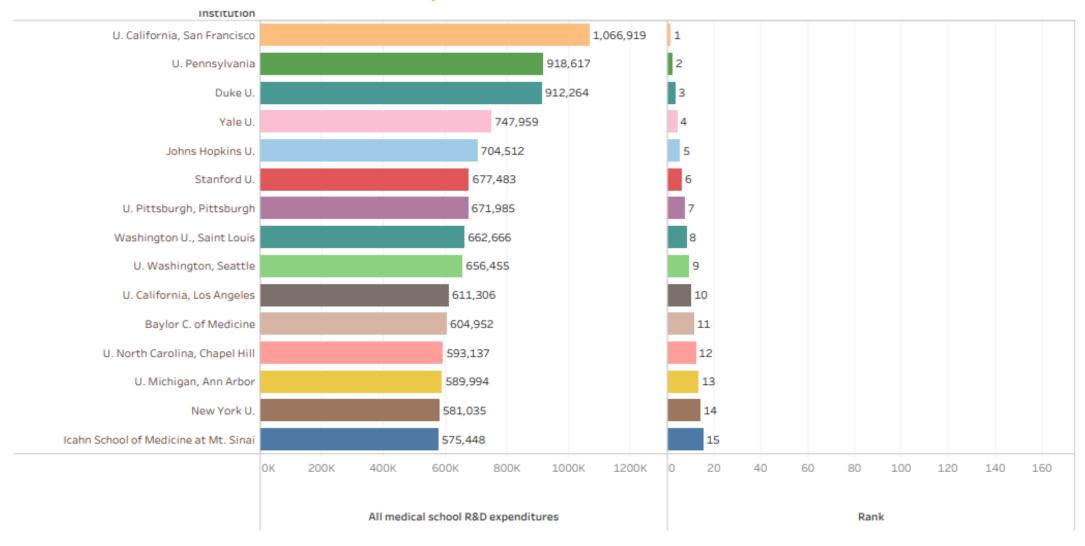
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WMU R&D Expenditure - By Field (Relative Size)



Source: Report produced by OVPR and the Office of Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

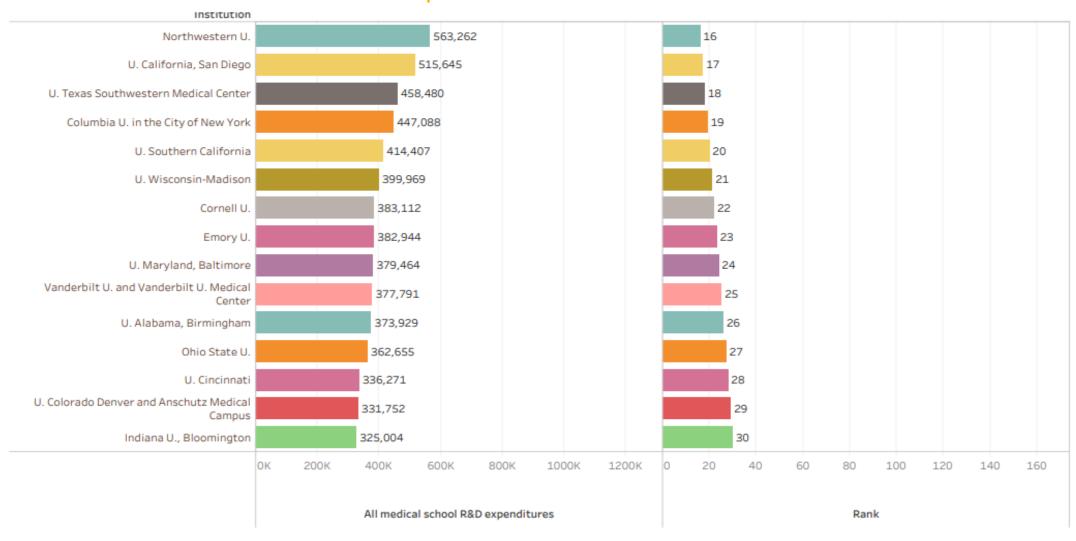
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Source: Report produced by OVPR and the Office Institutional Research based on Higher Education Research and Development (HERD) Survey Data.

Notes: (1) Total School = 644, (2) Schools Reported Any Medical R&D = 154, (3) WMU Rank = 134, (4) NSF doesn't have official rankings of medical schools. The ranking is created simply by sorting the medical school R&D expenditure.

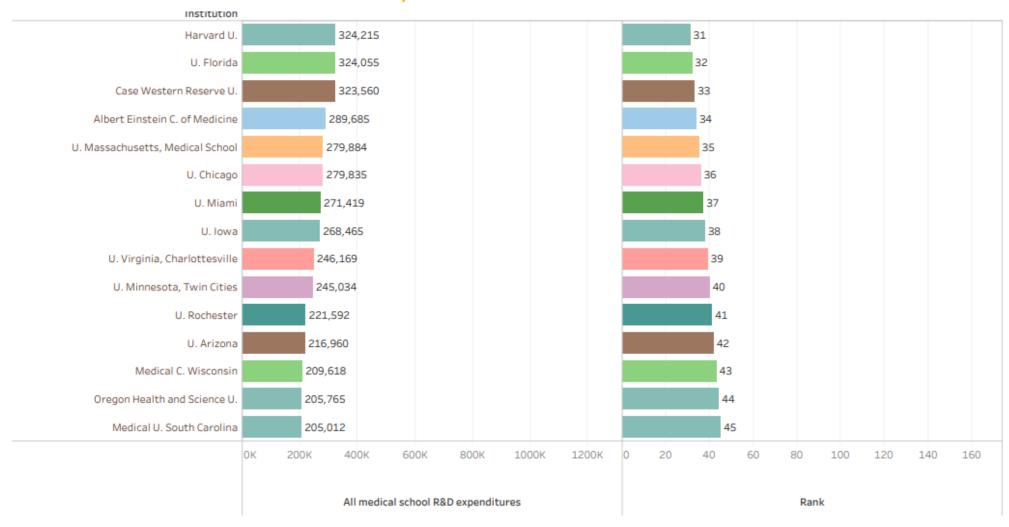
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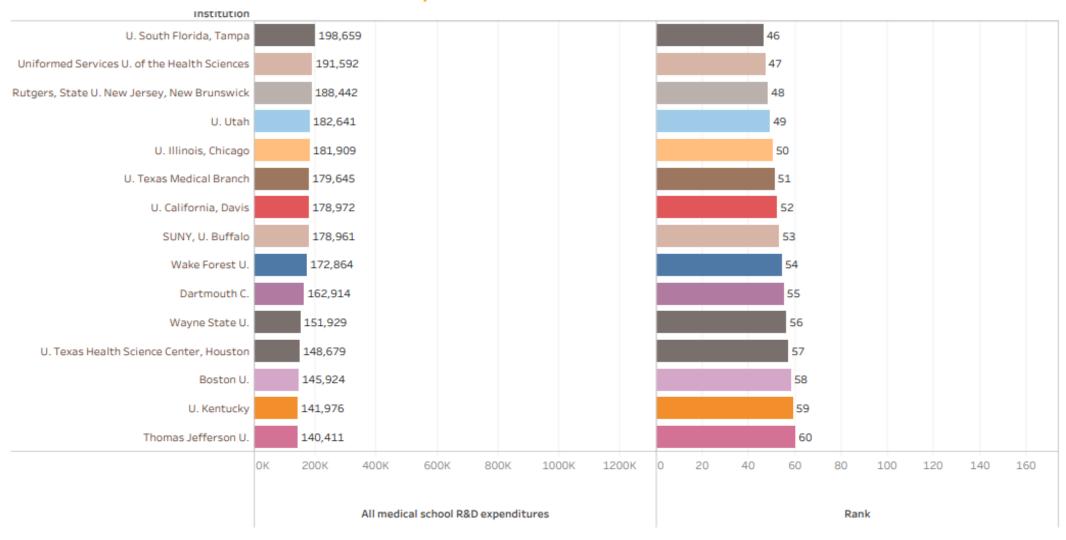
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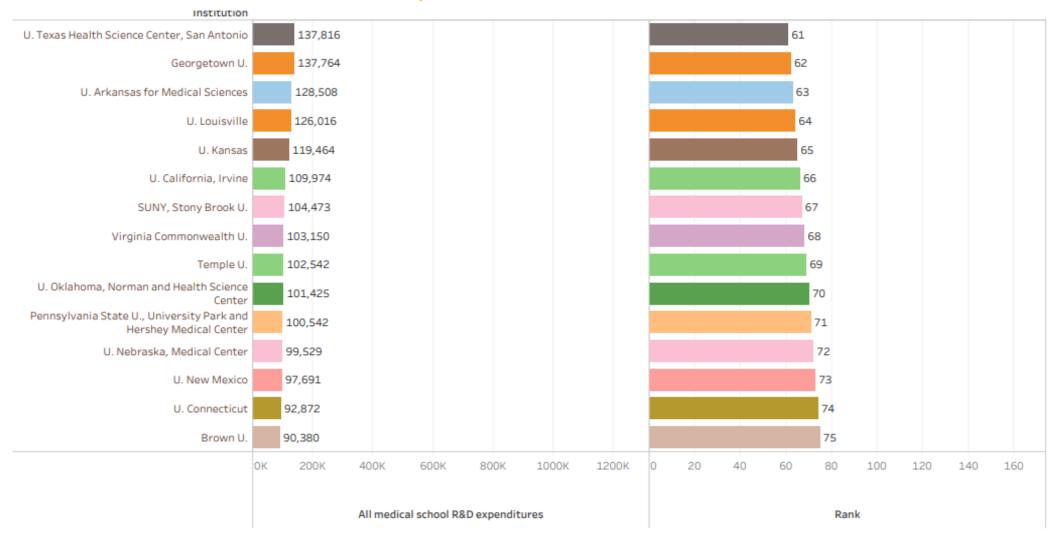
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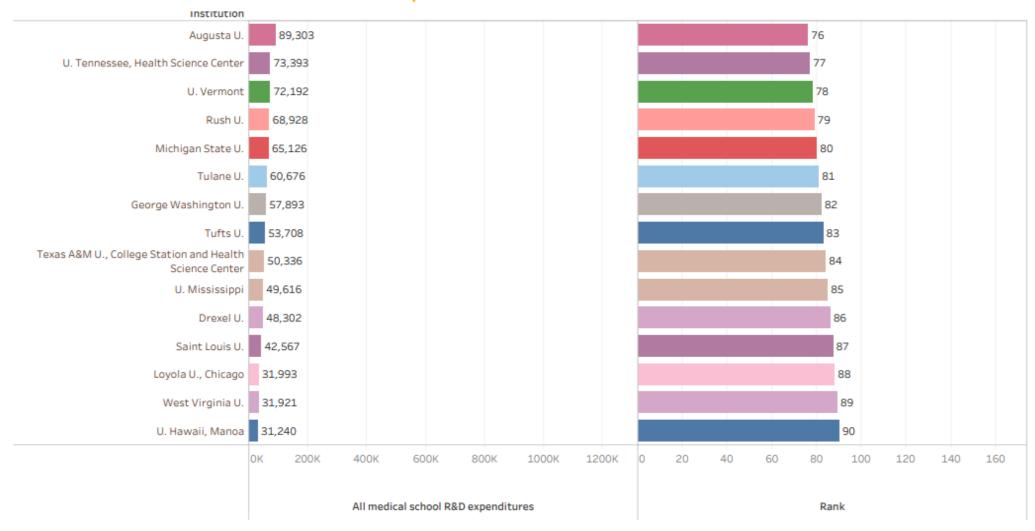
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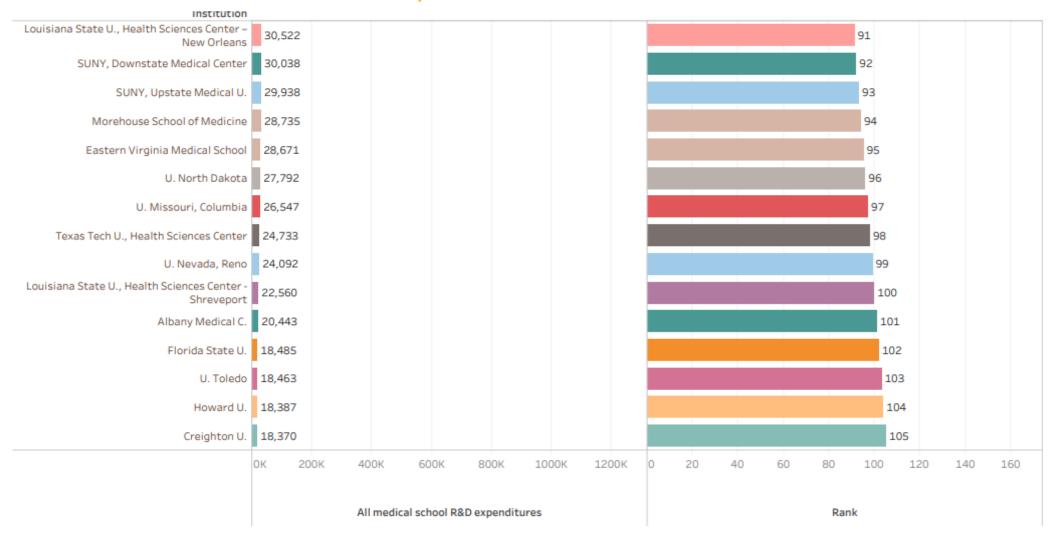
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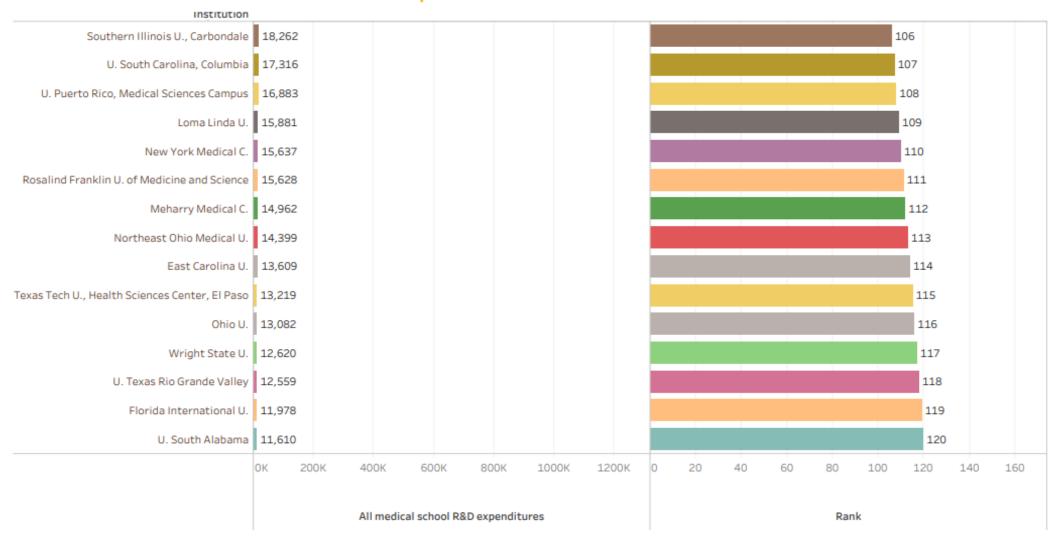
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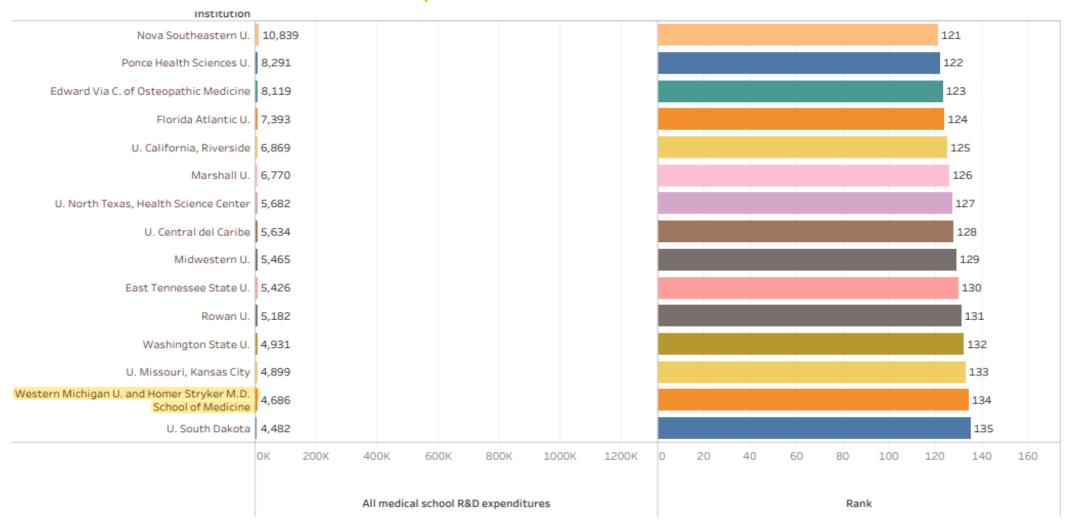
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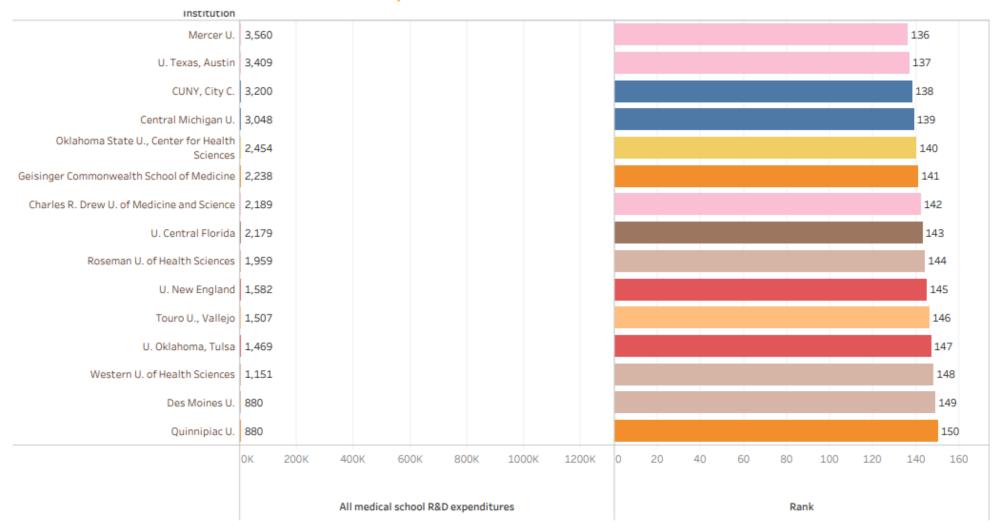
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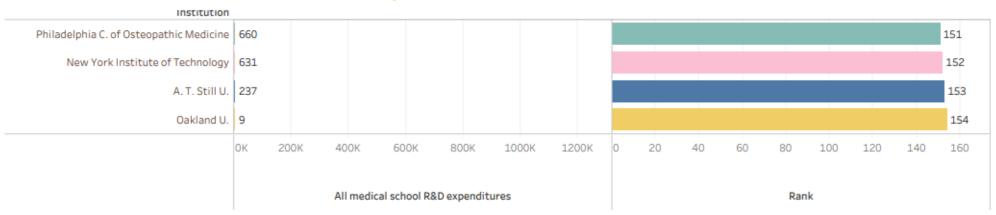
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