



Missouri University of Science and Technology

Dean's Report

CASE College Wide Meeting

December 11, 2024

Noteworthy Efforts & Accomplishments

- **CASE Key Performance Indicators (KPIs) trending positive.**
- Written mentoring policies for each department
- First interdisciplinary team-taught grant to Devin Burns & Darin Finke to teach a course on Rationality (Psych 4995/Phil 4001)
- Education majors who are emphasizing/focusing on STEM education becoming eligible to apply for the Kummer Vanguard Scholars Program Scholarship
- Improving the Pre-Health website
- Almost all faculty websites on the new platform
- Purchasing new Marching Band uniforms with help of other units
- Hired 12 faculty in AY 2023-24 (3 endowed)
- Current searches for 8 positions (2 Kummer Endowed, 2 Assistant Professors, 4 NTT)



Noteworthy Efforts & Accomplishments

Outreach and Engagement

- 9 summer camps offered in 2024; Intro to CASE camp (coming in 2025)
- Held first CASE Family Day in September – CASE Faculty, Staff, and their families gathered on a Sunday afternoon for food and games.
- Two research signature area forums: Quantum Science and Materials for a Sustainable Future



Advancing Curriculum Offerings

- Approval of PhD in Psychological Science
- Emphasis area in STEM Education added to non-thesis MS in Biological Sciences
- Undergraduate Certificate in French Studies
- Proposal for BS in Data Science submitted to UM System



Fundraising: \$1.79 Million in Major Gifts in 2024

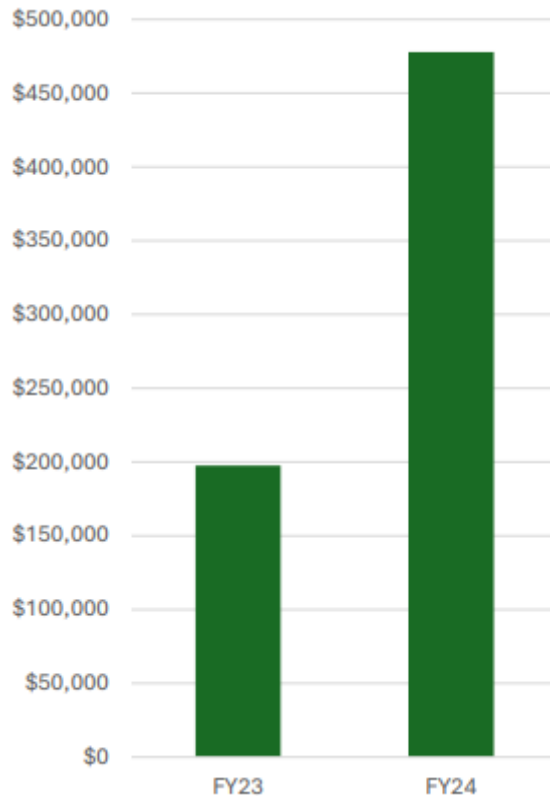
- \$1.2 million endowment from Dr. Ming-Sian & Mrs. Justina C. Wu. for Chemistry Dept.
- \$200,000 from John Park for the Physics Department
- \$100,000 from Mike and Debbie Haynes for Ozark Research Field Station
- \$100,000 from Gary and Sharon Kovener for the Physics Learning Center
- \$45,000 from Dr. Gerald Wilemski for graduate research in Physics
- \$40,000 from Mr. Steve Christensen for the Physics Department
- \$ 25,000 from Dr. Charles W. Myles for graduate students support in Physics
- \$ 25,000 from Dr. Kul and Mrs. Charlotte Bhasin for the Physics Department
- \$20,670 from Michael & Emily Repperger for Dean's Gift Fund and Evans Scholarship
- \$10,000 from Charlie Shroeder for chemistry equipment
- \$10,000 from Dr. Petra DeWitt for the DeWitt Undergrad Student Collaboratory
- \$10,000 from Don and Sally Kania for tuition/scholarships at Child Development Center

Fundraising Snapshot

Fiscal Year 2024

In **FY24** total fundraising dollars surged by **135%** over FY23.

In **FY25** major fundraising dollars can surge **234%** over FY24 based on expected gifts.



Social Media Following

Updates and Goals



Baseline: 1,453
Current: 1,700
Change: +17%
New Target: 2,000



Baseline: 1
Current: 852
Change: +85,000%
New Target: 1,000



Baseline: 616
Current: 768
Change: +25%
New Target: 1,000

Coming Up

- Faculty Recognition Reception
 - December 11, 2024, 4:30-6:00 pm, Hasselmann Alumni House
- Commencement
 - December 13-14, 2024
- Student recruitment trip to Taiwan
 - December 2024
- Schrenk East Renovation
 - January 2025 – December 2026
- External review of Biological Sciences & Psychological Science departments
 - February 2025
- Giving Day
 - April 9, 2025
- Project Based Learning Initiative with CEC
 - Fall 2025
- Upgrading Physics building
 - Starting in 2026



Missouri University of Science
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Faculty



New Faculty



Dr. Margret Grebowicz
Maxwell C. Weiner
Distinguished Professor of
Humanities



Alejandra Sobrado
Associate Teaching
Professor of Spanish and
GEP Director



Courtney Webster
Assistant Teaching
Professor of French

Arts, Languages, and Philosophy

New Faculty



Dr. Pablo Sobrado
Richard K. Vitek/FCR
Missouri Endowed
Professor of Biochemistry



Dr. Gregory Tschumper
Donald L. Castleman/FCR
Missouri Endowed
Professor of Discovery



Dr. Jeffrey Chalfant
Assistant Teaching
Professor of Education, 4-H
Specialist

Chemistry and Education

New Faculty



Dr. Victoria Braegger
Assistant Professor of
English and Technical
Communication



Dr. Joshua Coonrod
Assistant Teaching
Professor of English and
Technical Communication



Lisa Pavia-Higel
Assistant Teaching
Professor of English and
Technical Communication

English and Technical Communication

New Faculty



Dr. Nilanjan Chakraborty
Assistant Professor of
Statistics



Dr. Matthew Ng
Assistant Professor of
Psychological Science



Dr. Ann Schlotzhauer
Assistant Professor of
Psychological Science

Mathematics & Statistics and Psychological Science

Acting/Interim Department Chairs



Dr. KC Dolan

**Department of English and
Technical Communication**



Dr. John Singler

**Department of Mathematics
and Statistics**

Faculty Leadership Council

2024-2025

Lori Francis – Arts, Languages, and Philosophy

Chen Hou – Biological Sciences

Jeffrey Winiarz – Chemistry

Mary Gillis – Education

Ryan Cheek – English and Technical Communication

Michael Meagher – History and Political Science

Elvan Akin – Mathematics and Statistics

Frank Dietzold – Military Science

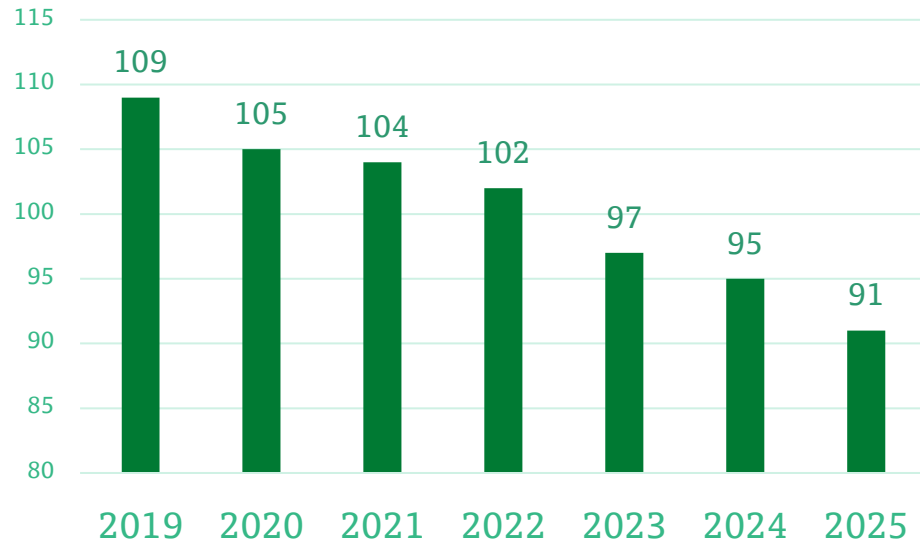
Daniel Fischer – Physics

Amber Henslee – Psychological Science, **Chair**

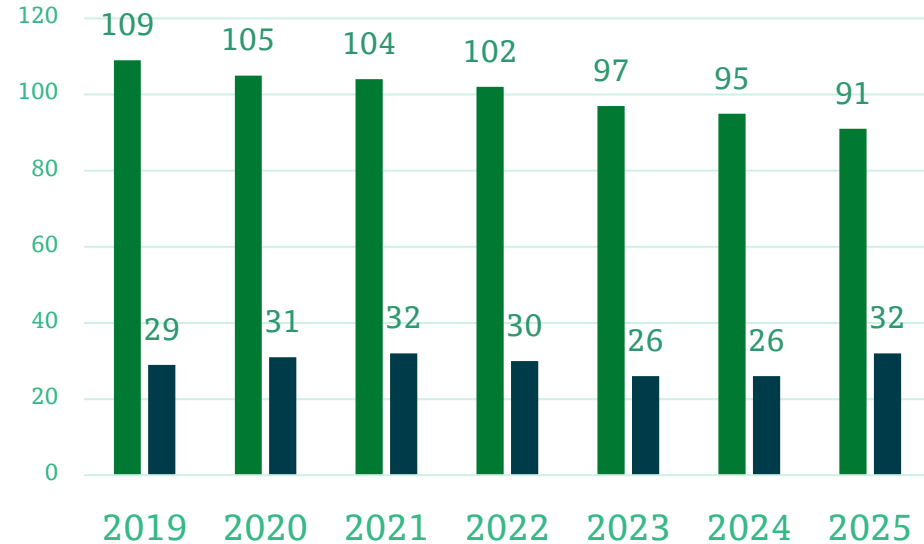
Faculty Numbers

By Fiscal Year

Tenured/TT



Faculty Counts



■ TT ■ NTT



Recent Retirements

FY2023-2025

- Nuran Ercal, Chemistry
- Rainer Glaser, Chemistry
- David Grow, Mathematics and Statistics
- Matt Insall, Mathematics and Statistics
- Jerry Peacher, Physics
- Dan Waddill, Physics
- Terry Wilson, Biological Sciences

In-Progress Faculty Search Updates

2024-2025 Plans & Status

Kummer Endowed Department Chair of Biological Sciences

- Verbal offer extended

Kummer Endowed Professor of Data Science

- About to make an offer

Assistant Teaching Professor of Early Childhood Education

- About to make an offer

Assistant Professor of Organic Chemistry

- About to make an offer

Assistant Professor of Astrophysics

- Finalist interviews scheduled

Assistant or Associate Teaching Professor of Music / Director of Bands

- Finalist interviews scheduled

Assistant Teaching Professor of Mathematics and Statistics

- Ad posted

Assistant Teaching Professor of English and Technical Communication

- Ad posted

Share of Campus Awards by CASE Faculty (2024)

Faculty Excellence Awards (Excellence in Teaching, Research, and Service), 4/5 go to CASE (80%)

- Amy Belfi
- Shane Epting
- Shun Saito
- Daniel Shank

Faculty Achievement Awards (Excellence Award for NTT faculty), 2/4 (50%)

- Andrew Behrendt
- Lorie Francis

Faculty Teaching Award, 6/8 (75%)

- Ryan Cheek
- Taylor Gruenloh
- Amber Henslee
- Dev Niyogi
- Michelle Schwartz
- Kelly Tate

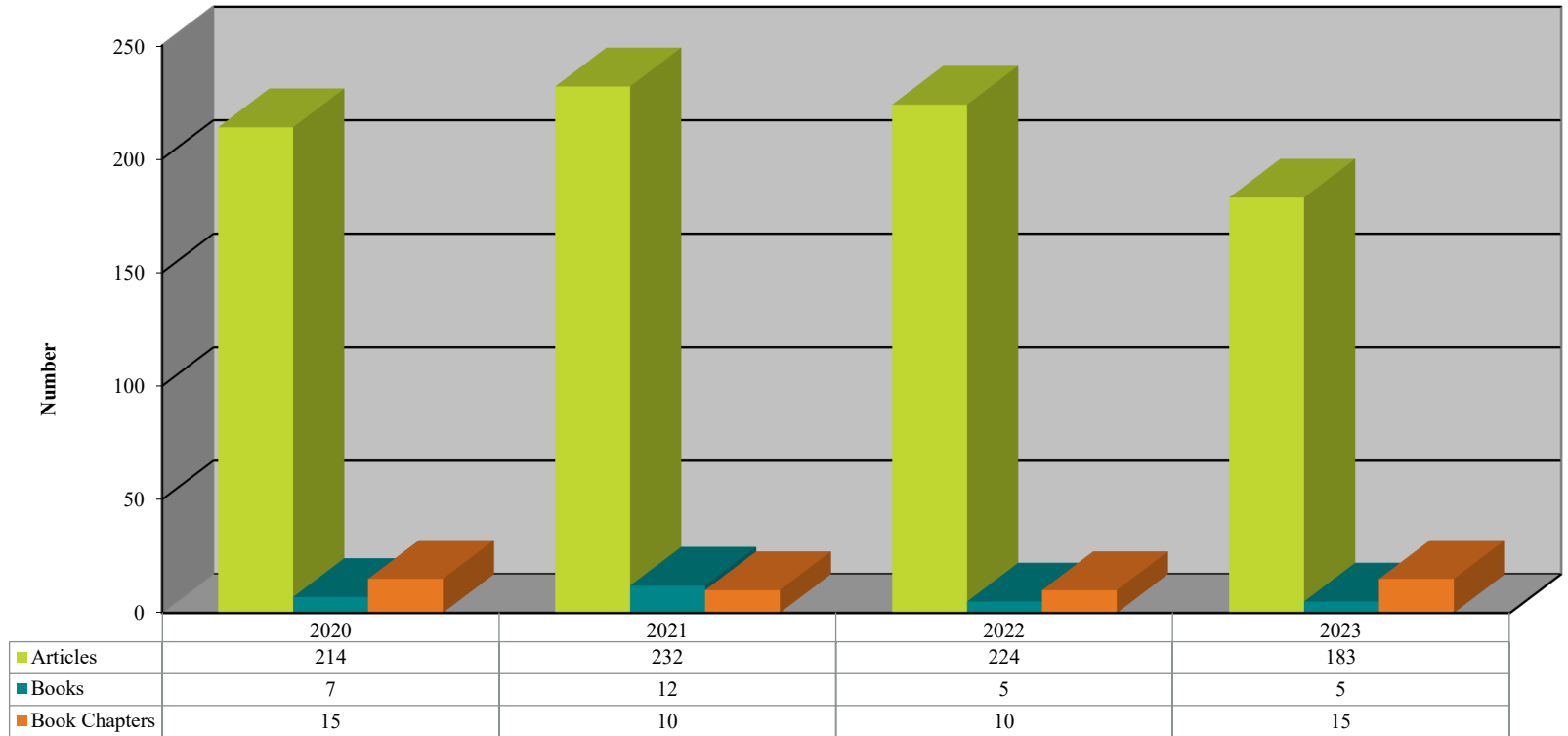
Faculty Research Award, 1/8 (12.5%)

- Kathleen Sheppard

Faculty Service Award, 1/4 (25%)

- Marco Cavaglia

of Articles and Books Published by CASE Faculty -2020-23





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Strategic Plan Updates



Strategic Plan Progress

- CASE Strategic Plan Task Force working since June 2024
- Help of graduate students in Psychological Science
- Sharing the Executive Summary with chairs, Dean's Leadership Council (DLC), Faculty Leadership Council (FLC), Student Advisory Board, and all faculty and staff in January
- Enabling everyone to send us anonymous comments
- Townhall meeting on strategic plan on February 4 at 3 pm
- Vision and Mission statements

Mission and Vision Statements

Mission

The College of Arts, Sciences, and Education is dedicated to offering an inclusive, transformative environment that cultivates critical thinking, pioneering research, creative expression, collaborative mindset, and academic excellence in a STEM-focused university. We motivate students to become innovative leaders who make a positive impact on their communities and the world.

Vision

The College of Arts, Sciences, and Education aspires to educate future leaders by fostering an intellectually rigorous, inclusive, and collaborative environment focused on learning, discovery, and the generation of knowledge and creative works. We strive to expand access to educational and cultural opportunities, as well as establish pivotal partnerships, to enrich our local and global communities. Our goal is to inspire students, faculty, and staff to broaden their horizons and pursue intellectual excellence, empowering them to achieve their highest potential.



Survey of 191 Respondents

Thank you for your feedback!

- 74% of the respondents agree or strongly agree with the mission and vision
- 68% of respondents are satisfied with CASE as a place to work or study
- 67% think their department is ready for a new strategic plan
- 55% of the respondents feel that their peers are committed to fulfilling CASE's vision
- 50% of the respondents are strongly likely/somewhat likely to be a champion for CASE

Breakdown of Data

My Personal values align with CASE's vision and mission?

- Students: 74%
- Staff: 60%
- Faculty: 81%

I feel my peers are committed to fulfilling CASE's mission and vision?

- Students: 50%
- Staff: 50%
- Faculty: 64%

How likely are you to serve as a champion for CASE?

- Student: 34%
- Staff: 65%
- Faculty: 64%

How satisfied are you with CASE as a place to work/study?

- Students: 66%
- Staff: 80%
- Faculty: 67%

How ready do you think your department is to implement a new strategic plan?

- Students: 66%
- Staff: 85%
- Faculty: 61%



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Enrollment




Reported Career Outcomes

For 2022-2023



 **144**
Student Respondents

 **93.75%**
Positive Outcome Rate

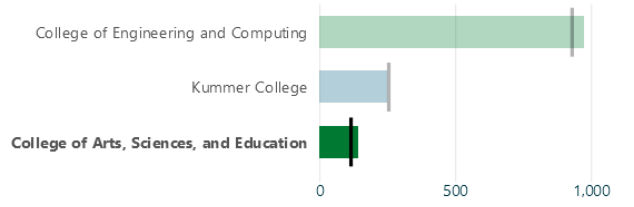
 **\$66,817.25**
Average Reported Salary

Prior Year:
114

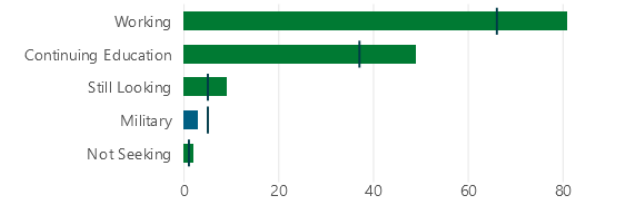
Prior Year:
95.61%

Prior Year: \$51,109.33
Highest Salary \$110,000

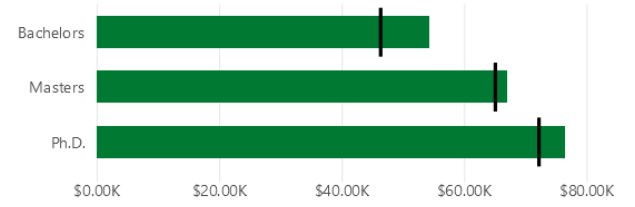
Students by College



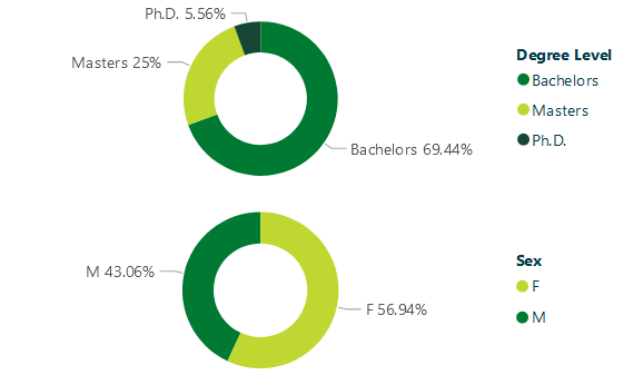
Students by Outcome



Average Reported Salary by Degree Level



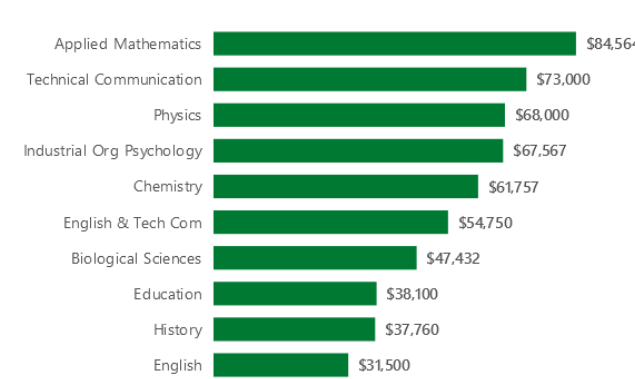
Student Details



Top Hiring Employers

Employer	Students Hired	YoY Change
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Average Reported Salary by Department





- FTC
- TRE
- Fall
- Spring
- College
- Source
- Acad Plan
- Residency
- State
- Sex
- Citizenship
- HIF Status

- Apps
- Admits
- Deposits
- A&R
- Admission Counselor
- All

APPLY Apps

5,590

Prior Cycle: 5,171 **419 | 8.1% ↑**
 Awaiting Mate... 718
 Avg ACT: 27.26

CEC	High
CASE	Medium
KUMMER	Low
NON-DEGREE	Very Low

Admits

4,409

Prior Cycle: 3,737 **↑ 672 | 18%**
 Admit Rate: 78.9% **↑ 9.1% | 72.3%**
 Avg ACT: 27.69

CEC	High
CASE	Medium
KUMMER	Low
NON-DEGREE	Very Low

Net Deposits

471

Prior Cycle: 377 **↑ 94 | 24.9%**
 % Yield: 10.7% **↑ 0.6% | 10.1%**
 % A&R: 69.0% **↑ -24.6% | 93....**
 Avg ACT: 27.49

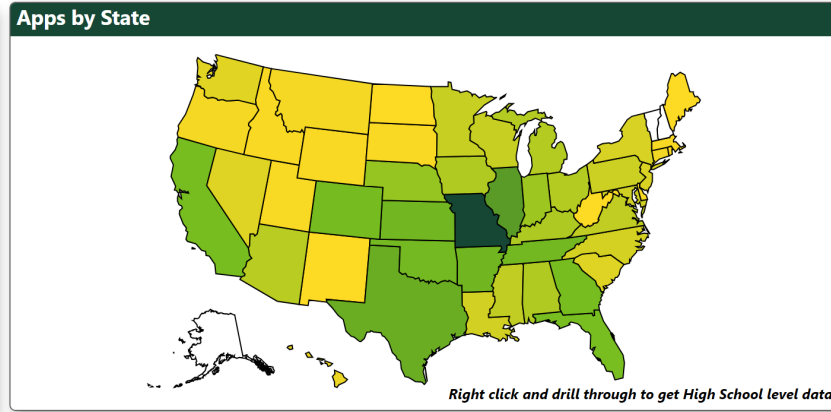
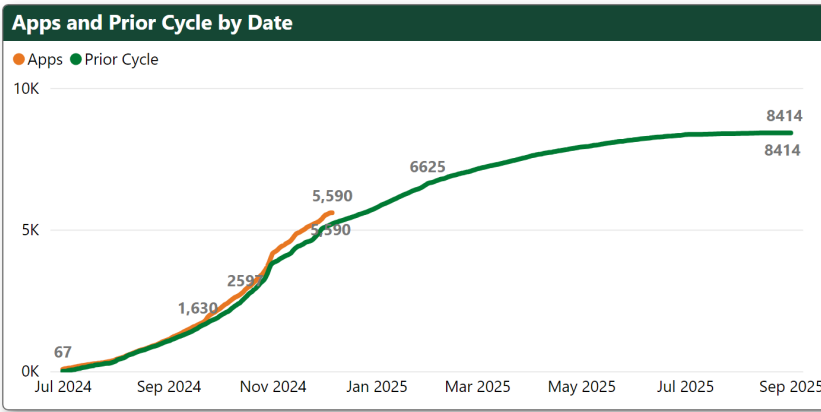
CEC	High
CASE	Low
KUMMER	Very Low
NON-DEGREE	Very Low

Enrolled

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Enrolled Prior: 1,276 **↓**
 % Yield: -- **↓ -338% | 338....**

CASE	Low
CEC	Very Low
KUMMER	Very Low
NON-DEGREE	Very Low





- FTC TRE
- Fall Spring
- Source
- Acad Plan
- Residency
- State
- Sex
- Citizenship
- HIF Status

Apps 1,031

Prior Cycle: 1,037 -6 | -0.6% ↓

Awaiting Mate... 182

Avg ACT: 25.33

Avg HS GPA: --

BIO SC	High
PSYCH	Medium
ENV SCI	Low
CHEM	Low
PHYSIC	Low
AP MATH	Low
EDUC	Low
HIST	Low
TCH CM	Low
ENGL TC	Low

Admits 732

Prior Cycle: 674 ↑ 58 | 8.6%

Admit Rate: 71.0% ↑ 9.2% | 65%

Avg ACT: 26.23

Avg HS GPA: --

BIO SC	High
PSYCH	Medium
CHEM	Low
PHYSIC	Low
ENV SCI	Low
AP MATH	Low
EDUC	Low
HIST	Low
ENGL TC	Low
PHIL	Low

Net Deposits 38

Prior Cycle: 32 ↑ 6 | 18.8%

% Yield: 5.2% ↑ 0.4% | 4.7%

% A&R: 73.7% ↑ -20.1% | 93....

BIO SC	High
CHEM	Low
PHYSIC	Low
PSYCH	Low
ENV SCI	Low
EDUC	Low
AP MATH	Low

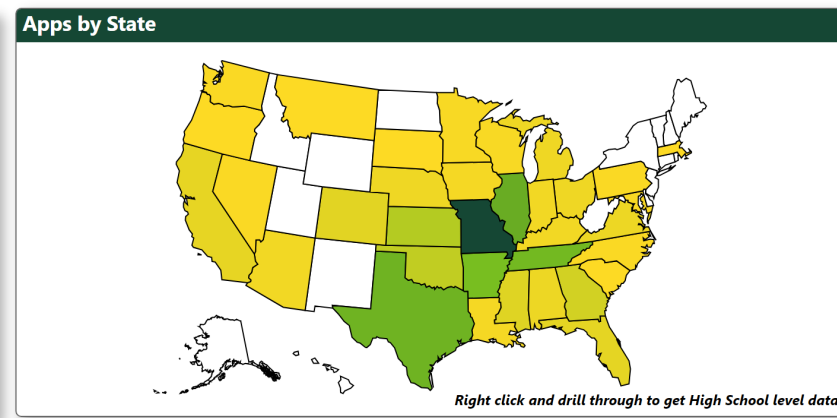
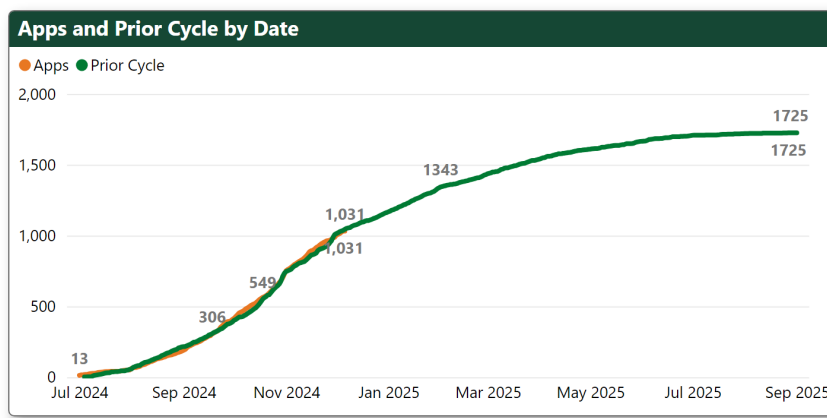
Enrolled --

Enrolled Prior: 134 ↓

% Yield: -- ↓ -419% | 418....

AP MATH	Low
BIO SC	Low
CHEM	Low
EDUC	Low
EDYC	Low
ENGL TC	Low
ENV SCI	Low
HIST	Low
MULTI	Low
PHYSIC	Low

- Apps
- Admits
- Deposits
- A&R
- Admission Counselor
- All



Enrollment

Enrolled Students

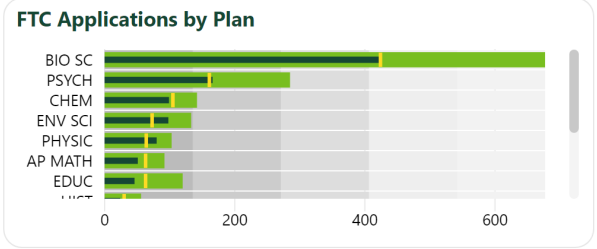
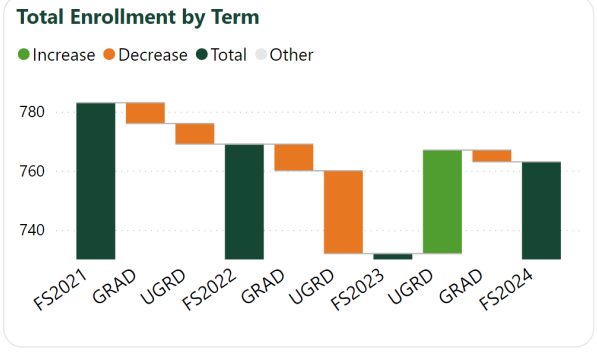
763

Enrolled (UGRD) **587**
Enrolled (GRAD) **176**

FTC Apps

1,031

FTC Apps (PTD Prior) **1,037**
Total FTC Apps (Prior Yr) **1,725**



Grants and Research

Total Awards (FYTD)

\$3,070,253.44

Prior FYTD **6,415,264.80**

Total Proposals (FYTD)

\$26,258,928.13

Prior FYTD **\$14,930,775.60**

Total Expenditures (FYTD)

\$3,034,721.51

Prior FYTD **\$3,755,538.58**

Human Resources

Headcount

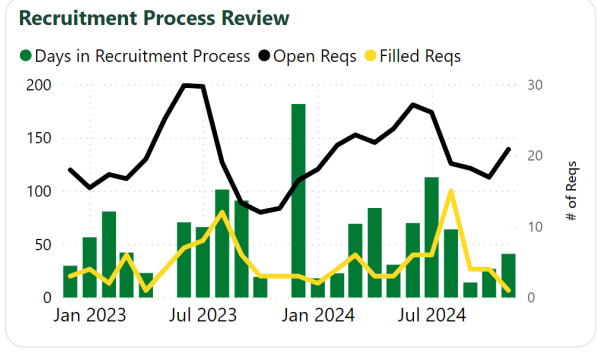
204

Faculty **123**
Staff **75**

Open Positions

23

Turnover % **11.65%**
Churnover % **66.88%**



Faculty & Staff Turnover

Department	Rolling 356 Avg	Prior 365 Avg
Military Science - Army	104.58%	0.00%
Education	45.99%	58.27%
English & Tech Communication	17.10%	7.79%
Arts, Languages & Philosophy	13.90%	9.18%
Mathematics & Statistics	12.19%	18.70%
Physics	8.55%	9.44%
Total	20.82%	23.97%



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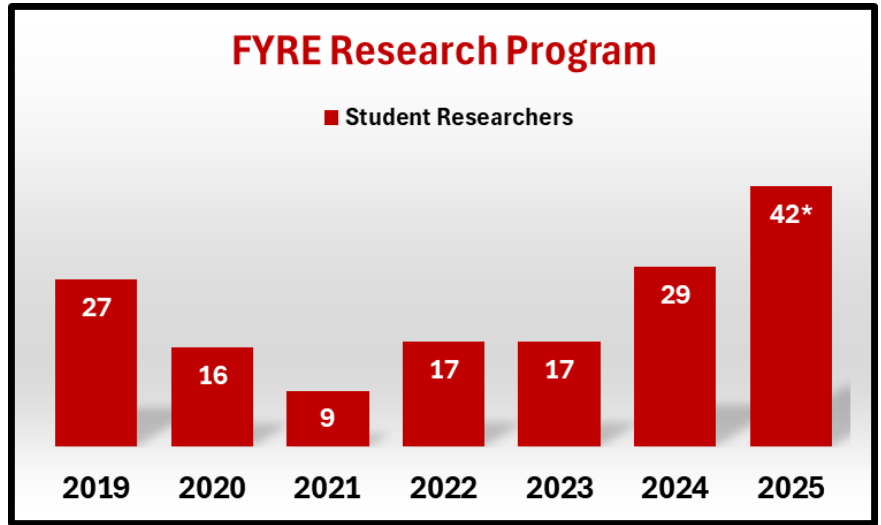
Research, Scholarship & External Funding



FYRE Program Growth

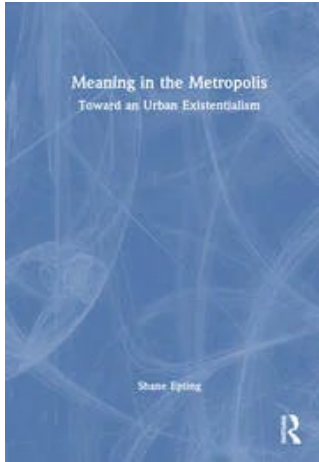
Increase from
17 students in **2022-2023** to
29 students in **2023-2024**,
a growth of **70.6%**.

42 students registered for
2024-2025 FYRE Program,
a growth of another **44.8%**.

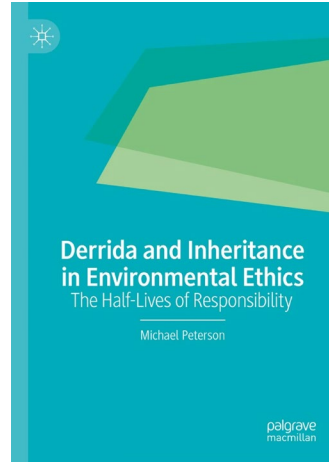


Books Published

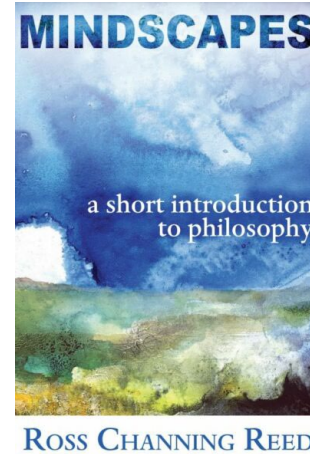
Four books published in 2024 by CASE Faculty



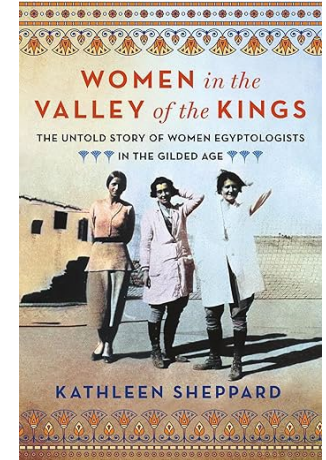
Meaning in Metropolis
Toward an Urban
Existentialism
Dr. Shane Epting



Derrida and
Inheritance in
Environmental Ethics:
The Half-Lives of
Responsibility
Dr. Michael Peterson



**MINDSCAPES: A
Short Introduction to
Philosophy
Dr. Ross Channing
Reed**



Women in the Valley of
the Kings: The Untold
Story of Women
Egyptologists in the
Gilded Age
Dr. Kathleen Sheppard

166

Projects FYTD

\$36.66M

Total FYTD Proposals

\$13.37M

Total Awards

\$9.25M

Total FYTD Expenditures

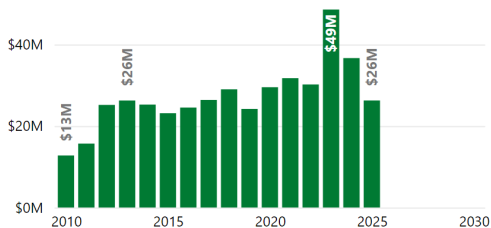
58

Faculty > 10% Shared Credit FYTD

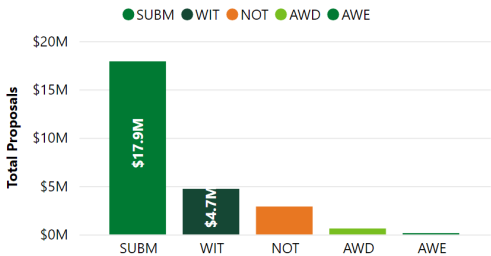
PROPOSALS

572,780.71

Average Proposals per Faculty



Proposal Status



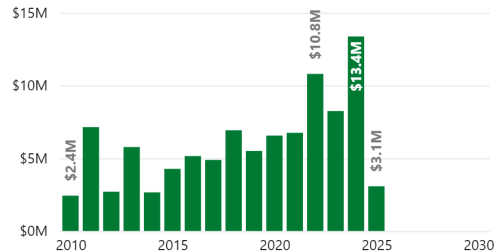
Top Proposal Faculty

Zalis, Aaron R	\$3,278,947.00
Kania-Gosche, Beth	\$1,508,479.05
Jones, Courtney	\$2,018,514.40
Huang, Yue-Wern	\$2,505,023.00
Grubbs II, Garry Smith	\$2,193,297.40

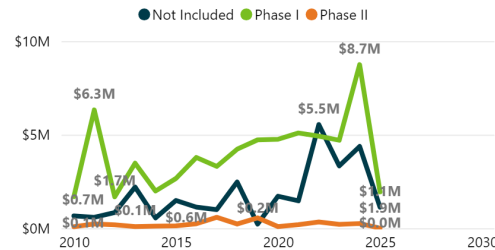
AWARDS

\$381,873.99

Average Awards per Faculty



AAU Status



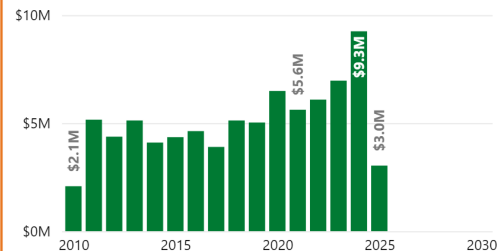
Top Awarded Faculty

Zalis, Aaron R	\$3,278,348.00
Whitefield, Philip D	\$2,989,583.50
Woelk, Klaus Hubert	\$2,781,907.50
Scharf, Andrea	\$501,772.00
Jones, Courtney	\$485,100.00

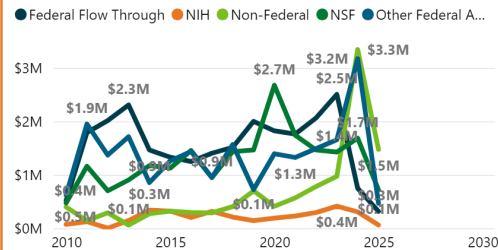
EXPENDITURES

\$146,833.66

Average Expenditures per Faculty



Funding Source



Top Expenditure Faculty

Zalis, Aaron R	\$2,344,850.64
Whitefield, Philip D	\$1,369,203.12
Woelk, Klaus Hubert	\$1,072,874.60
Kania-Gosche, Beth	\$433,156.93
Jones, Courtney	\$320,711.10

124

Projects FYTD

\$26.26M

Total FYTD Proposals

\$3.07M

Total Awards

\$3.03M

Total FYTD Expenditures

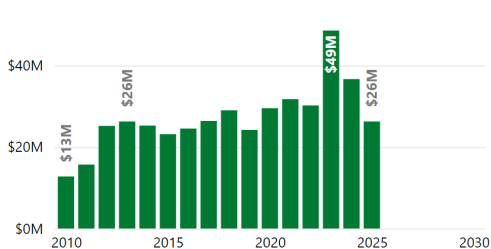
53

Faculty > 10% Shared Credit FYTD

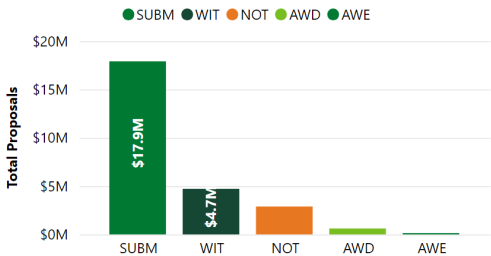
PROPOSALS

570,846.26

Average Proposals per Faculty



Proposal Status



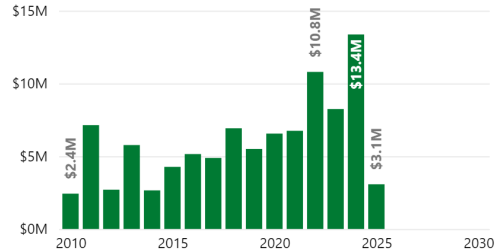
FYTD Top Faculty

Huang,Yue-Wern	\$2,242,807.60
Mystakidis,Symeon	\$2,339,638.00
Nath,Manashi	\$3,193,140.70
Whitefield,Philip D	\$2,357,787.00
Woelk,Klaus Hubert	\$2,357,787.00

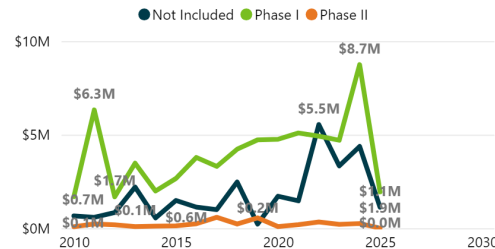
AWARDS

\$118,086.67

Average Awards per Faculty



AAU Status



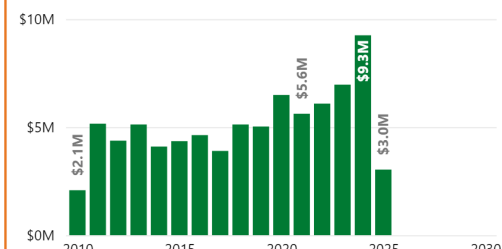
FYTD Top Faculty

Kania-Gosche,Beth	\$368,090.34
Zalis,Aaron R	\$366,695.00
Tschumper,Gregory S.	\$301,463.00
Jones,Courtney	\$289,233.00
Kim,Hyunsoo	\$246,390.00

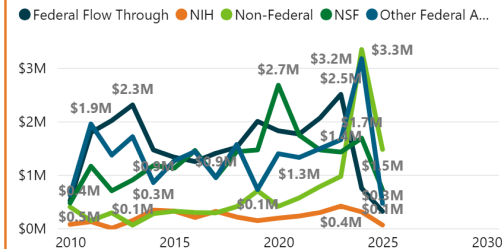
EXPENDITURES

\$55,176.75

Average Expenditures per Faculty



Funding Source



FYTD Top Faculty

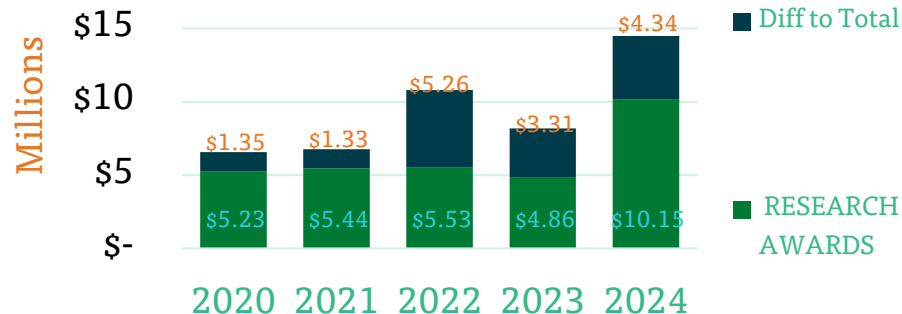
Zalis,Aaron R	\$1,046,717.03
Kania-Gosche,Beth	\$207,812.44
Whitefield,Philip D	\$194,355.50
Grubbs II,Garry Smith	\$152,953.93
Schuman,Thomas	\$138,219.05

College of Arts, Sciences, and Education

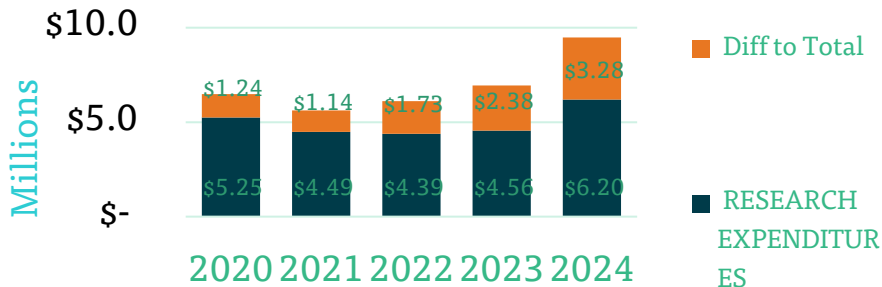
SHARED PROPOSALS



SHARED AWARDS



SHARED EXPENDITURES



SHARED F&A GENERATED

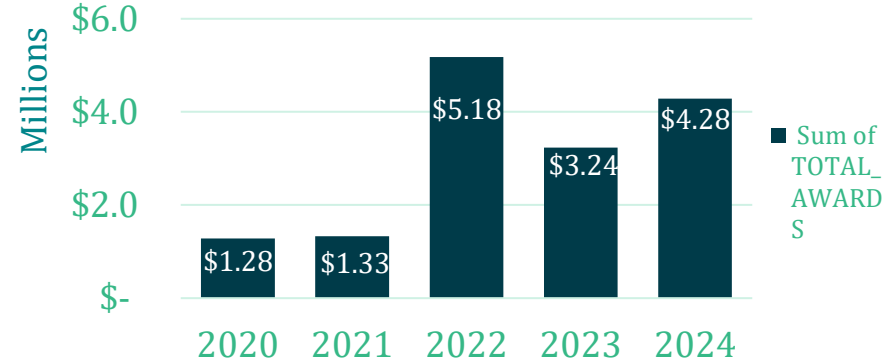


Education Department

PROPOSALS



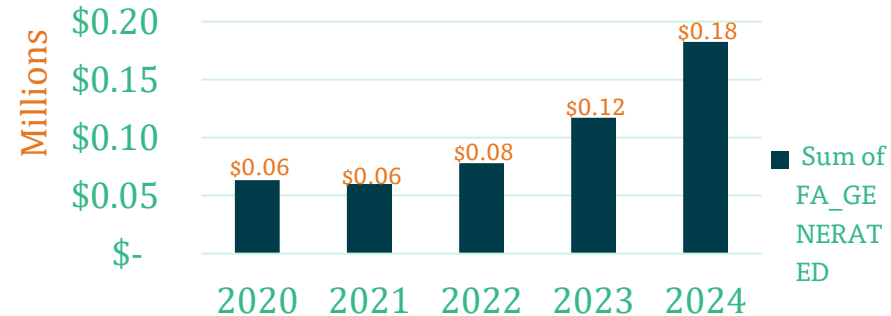
AWARDS



EXPENDITURES



F&A GENERATED





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Challenges and Priorities



Dean's Top Priorities

- ▶ Implement the Strategic Plan
- ▶ Increasing Enrollment: International recruitment
- ▶ Asking KI for major support
- ▶ Continue to enhance fundraising efforts
 - Undergraduate scholarships
 - Support new PhD students (tuition, stipend)
 - Needing sizable start-up packages for new faculty
- ▶ Raising Faculty Research Profile
- ▶ Improving CASE Visibility
- ▶ Enhancing the arts scene and programming





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Thank you!
Questions?

Have a wonderful (and
much deserved) winter
break!

