Growth Strategy 2019 - 2025

Grow excellence funding, program & reputation

Grow faculty

Grow enrollment



State of the College

Hanchen Huang, Dean Fall 2021

- Working environment
- Faculty and staff
- Education, research, & prominence
- Trajectory



Working environment: collegial and inclusive

The Kavi and Friends Computer Engineering Scholarship Endowment

This newly endowed scholarship demonstrates the strength of our CSE faculty, as well as the desire to support our students as they strive for their potential. This special scholarship will help Computer Engineering students for years to come and symbolize the special bond that exists among faculty in our department.

CMD-IT (National Center for Minorities and People with Disabilities in Information Technology) University Award

Given to CSE Department for Retention of Minorities and Students with Disabilities in Computer Science, the award recognizes U.S. institutions that have demonstrated a commitment to retaining students from underrepresented groups, such as African Americans, Native Americans, Hispanics, and People with Disabilities, in undergraduate computer science programs over the last five years. It comes with a \$15,000 cash award.

ASEE (American Society for Engineering Education) Bronze Award

Given to the UNT College of Engineering, the award recognizes the significant and measurable progress UNT Engineering has made in increasing its diversity and inclusion efforts in recruitment, enrollment, and outreach as well as its new and ongoing initiatives in those areas.



People -17 new faculty members (1/2)



Asif Baba Clinical Associate Professor, CSCEData science, information security, Internet of Things, decentralized blockchain



Amir Jafari Associate Professor, BMEN Robotics



Hung Luyen Assistant Professor, EE Antenna design, applied electromagnetics



Heng Fan Assistant Professor, CSCE Computer vision, artificial intelligence and machine learning



Yuede Ji Assistant Professor, CSCE Cybersecurity, high-performance computing, graph analytics



Abdelnasser Ouda Clinical Associate Professor, CSCE *Autonomic computing*



Neda Habibi Assistant Professor, BMEN Nanotechnology, drug delivery, cancer treatment, self-assembled biomaterials



Moo-Yeal Lee
Associate Professor, BMEN
3D bioprinting of human tissues for disease modeling and predictive drug screening



Tejasvi Parapudi Clinical Assistant Professor, CSCEDeveloping machine learning algorithms for clinical and biomedical use cases, IoT data analytics and security



People -17 new faculty members (2/2)



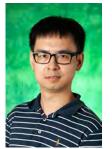
Russel Pears
Clinical Associate Professor, CSCE
Novel algorithms for machine learning, data stream
mining and pattern recognition



Sayed Shah
Clinical Assistant Professor, CSCE
Machine learning, deep learning, audio
analytics, edge intelligence, smart cities, AI
applications in healthcare diagnostics



Zeenat Tariq Clinical Assistant Professor, CSCE *AI in heath care, machine learning, deep learning, smart cities, edge intelligence*



Chenxi Qiu Assistant Professor, CSCE Cybersecurity



Shirin Shirvani
Clinical Assistant Professor, CSCE
Machine learning, optimization, data mining,
bioinformatics; development of intelligent
behavior; sensor-driven robotics



Vijay Vasudevan Chair and Professor, MTSE *Physical metallurgy and electron microscopy*



JN Reddy
Distinguished Research Professor, ME
Micropolar approach for web core beams, non-local
effects in lattice structures



King Man Siu
Assistant Professor, EE
Power Electronics in Renewable Energy
Systems



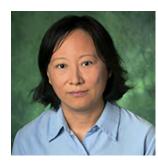
People – new Young Investigator awards



Diana Berman
NSF CAREER Award, 2021



Hua Sun NSF CAREER Award, 2021



Hui Zhao NSF CAREER Award, 2021

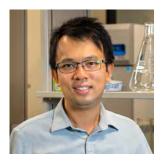


Amir Jafari
NSF CAREER Award, 2021
Awarded at UTSA



Ifana Mahbub

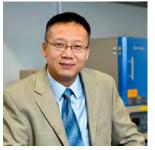
DARPA Young Faculty Award, 2021



Clement Chan NIH MIRA, 2021



People – external recognition of faculty



Jincheng Du
Fellow of ASM International,
2021



Brian Meckes
Ralph E. Powe Award, 2021
ORAU



Cheng Yu

SEI Fellow of American Society of Civil Engineers, 2021



Narendra Dahotre

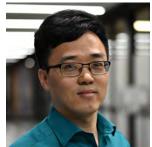
Tech Inventors Finalist, Tech
Titans



Vish Prasad

ASME 2020 Heat Transfer

Memorial Award



Qing Yang

Tech Titans of the Future –
University Finalist, Tech Titans



Yijie Jiang Ralph E. Powe Award, 2020 ORAU



Song Fu

Tech Titans of the Future –
University Finalist, Tech Titans



People – internal recognition of faculty



Yan Huang Regents Professor, 2021



Research Leadership Award, 2021

Wonbong Choi

Qing Yang

Rick Reidy



College of Engineering
Distinguished Faculty Fellow,

Diana Berman

Hua Sun

Hui Zhao



Renee Bryce
Distinguished Teaching
Professor, 2021



College of Engineering Faculty Research Award, 2021



College of Engineering Distinguished Faculty Fellow, 2021

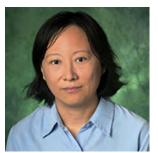


Presidential Early Career Professor, 2021

Ifana Mahbub



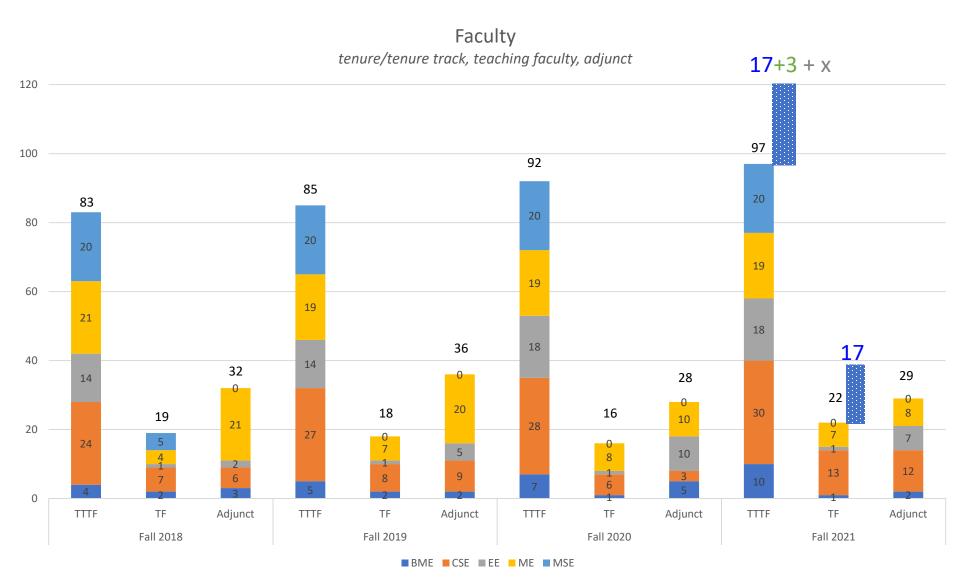
College of Engineering Faculty Teaching Award, 2021



College of Engineering Distinguished Faculty Fellow, 2021



People – faculty by the numbers





People – 10 new staff members



Tish Alexander MTSE Administrative Coordinator



Miranda Hogan **CSCE** Marketing Specialist



Victor Tralci Advising Associate Academic Advisor



Shelby Ancira CSCE Administrative Coordinator



Chido Kwande CSCE Office Support Associate



Shannon Venenga CSCE Administrative Specialist



Donna Cox Advising Associate Academic Advisor



Emma Roberts ME Graduate Student & Program Specialist



Melinda Spinelli Administrative Specialist



Alex Dao Marketing Graphic Design Specialist



People – 8 staff promotions/transfers



Abdal Elkharoubi AdvisingAcademic Advisor



Kendall Martin Research ServicesSenior Research Analyst



Errica Smith Advising Academic Advisor



Stacey Garcia EE Administrative Coordinator



Adrian Parks Advising *Senior College Recruiter*



Beverly Wilks AdvisingSr. Academic Advisor



Rusty Jordan
Research Services
Administrative Coordinator



Marla Salsman
Dean's Office
Sr. Administrative Specialist



People – Star Performers



Liz Assaad Office of the Dean



Mia Dallas Advising Office



Kayla Green Office of the Dean



Porsha Reeves Advising Office



Kathryn Beasley Office of the Dean



Lisa Dunlop Materials Science and Engineering



Rusty Jordan Research Services



Robbin Shull Mechanical Engineering



Jim Byford



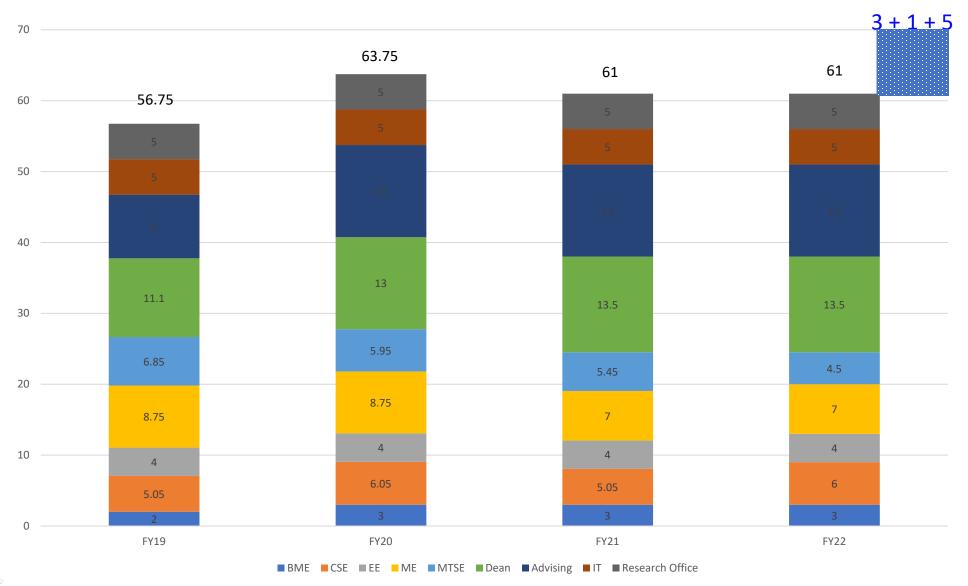
Cindy Dutton
Office of the Dean



Kendall Martin Research Services



People – staff by the numbers





People – college team

Academic Affairs: Nandika D'Souza

Research: Andrey Voevodin

Faculty Affairs: Barrett Bryant

Finance and Admin: Liz Assaad

Advancement & Corporate Relations: Angus McColl

Marketing and Communications: Kayla Green

IT: Jim Byford

Graduate Programs: Kathryn Beasley

Undergraduate Advising: Nancy Van Hoy

Research Services: Leyla Kimball

Executive Assistant to the Dean & Sr Operations Coordinator: Lisa Martin





































People – implementation of initiatives

- Lecturer conversion to clinical faculty
- Equity/market adjustment of salary
- Distinguished Faculty Fellow
- Award nomination
- Research Revitalization Initiative



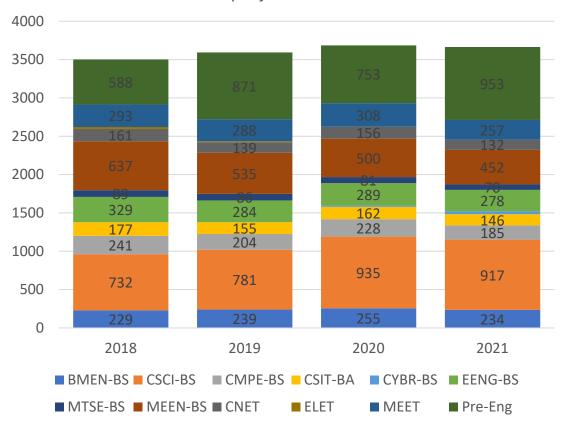
Education – new programs (growing enrollment)

Program	Start Date	Yr 1 Projected Enrollment	Yr 5 Projected Enrollment	Current Enrollment
MS Artificial Intelligence	Fall 2020; THECB approved 12/16/19	25	100	124
MS Data Engineering	Spring 2021; THECB approved 7/22/20	25	90	33
MS Engineering Management	Fall 2020; THECB approved 4/24/20	20	80	32
MS Cybersecurity	Fall 2020; THECB approved 3/9/20	15	45	31
BS Cybersecurity	Fall 2020; THECB approved 3/9/20	20	200	41 (73 pre- majors)
BS Construction Management	Fall 2021; THECB approved 7/9/20	20	100	41

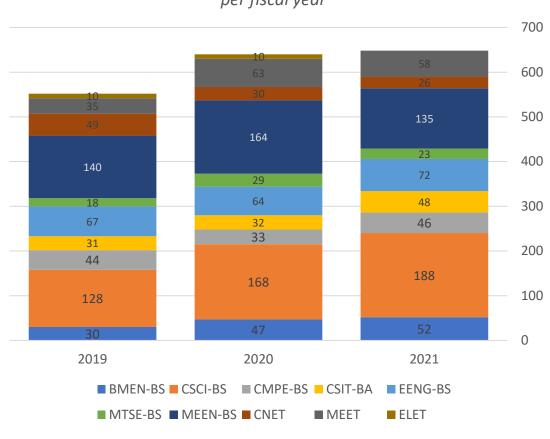


Education – undergraduate



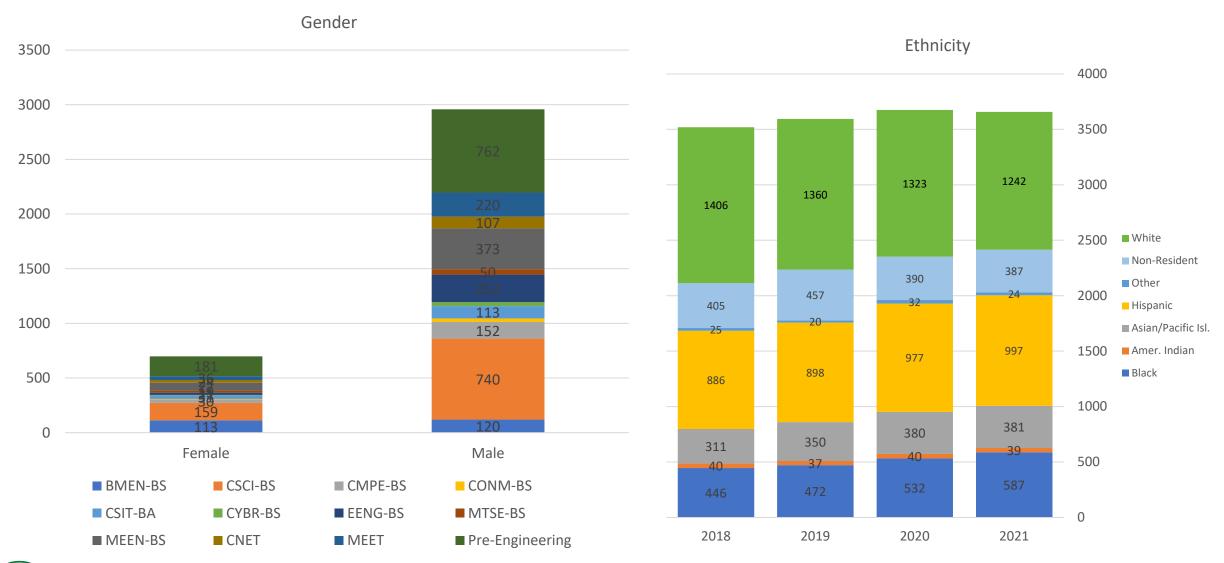


BS Graduates by Program per fiscal year





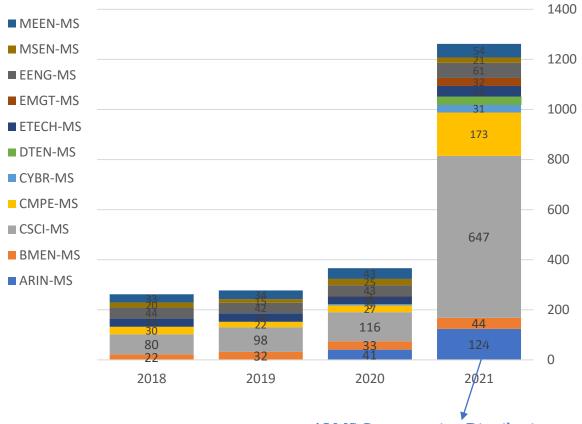
Education – undergraduate





Education – MS graduate

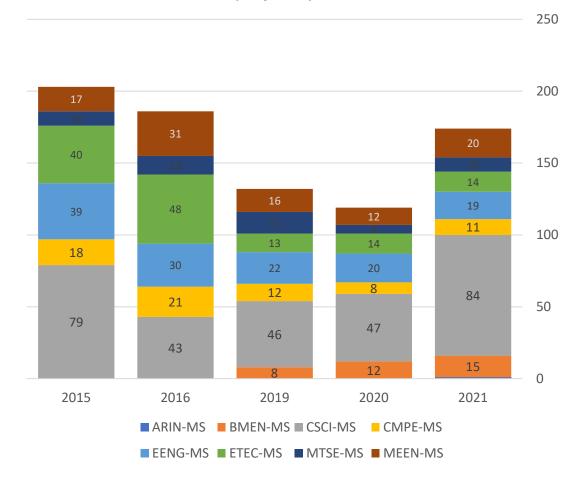




AI MS Concentration Distribution:

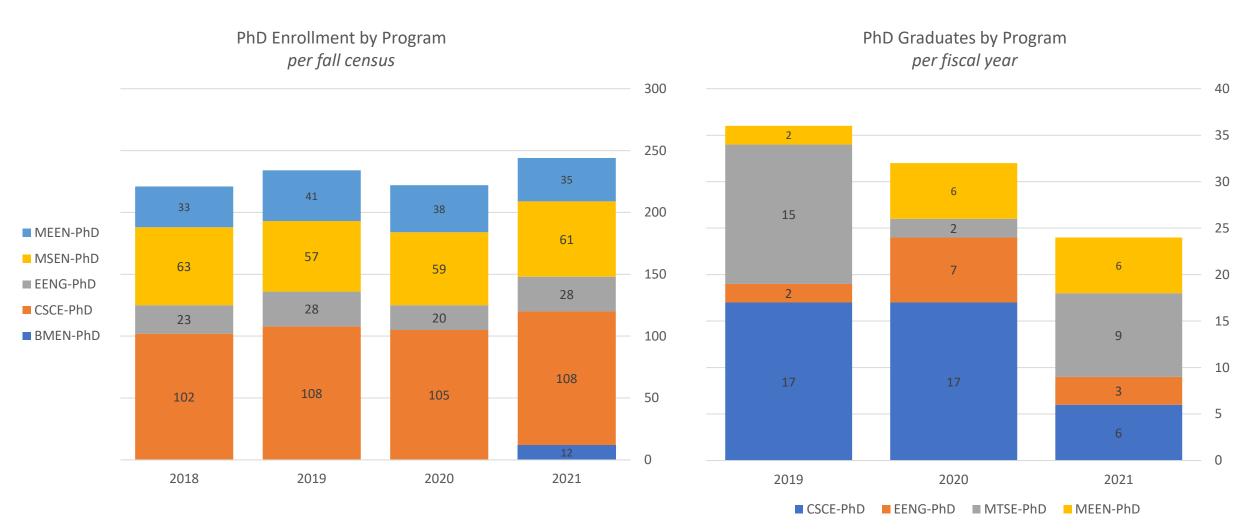
Machine Learning: 99 Autonomous Systems: 12 Biomedical Engineering: 13

MS Graduates by Program per fiscal year



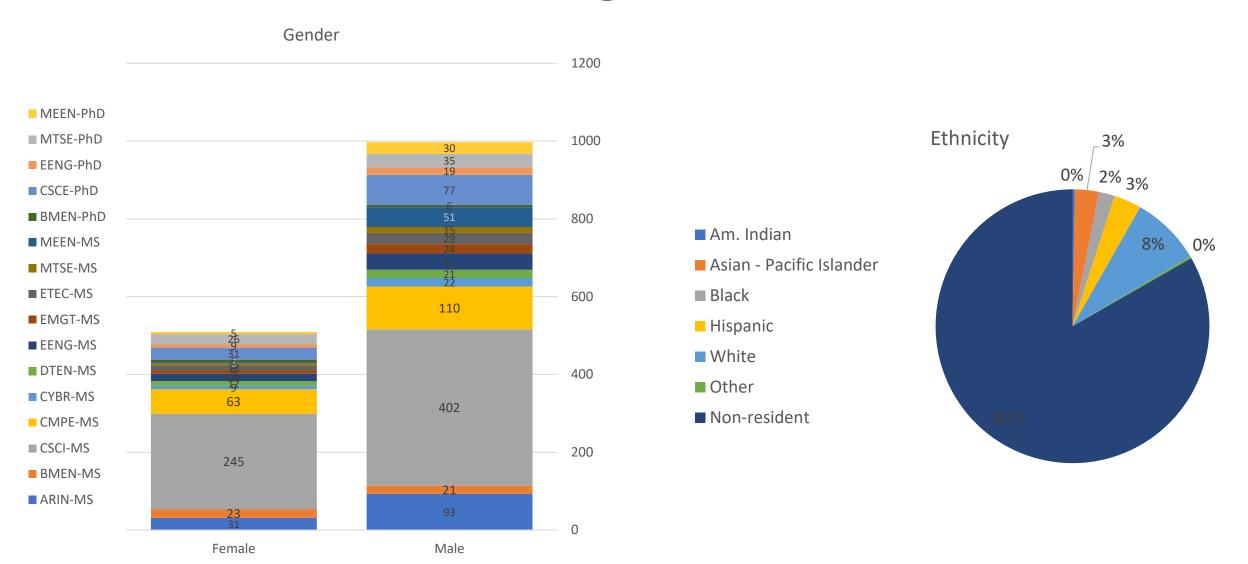


Education – PhD graduate





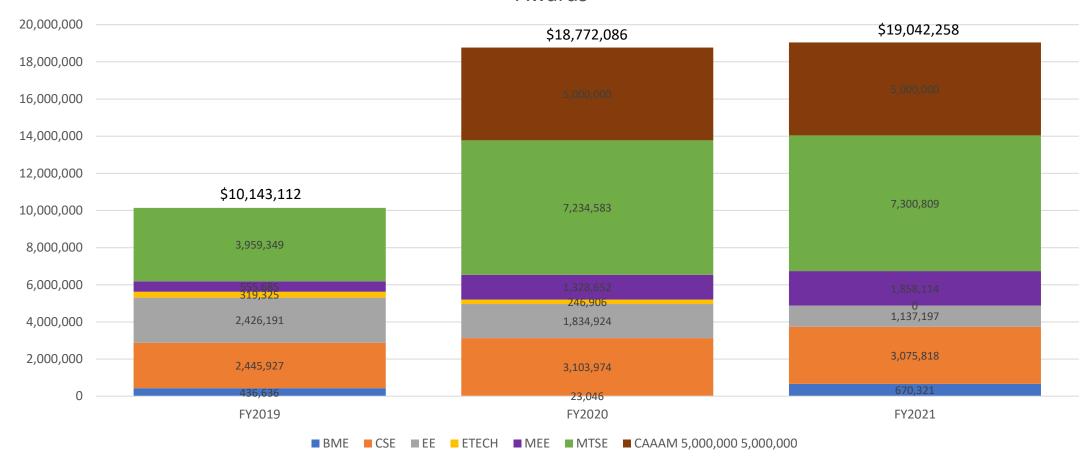
Education – MS & PhD graduate





Research – awards

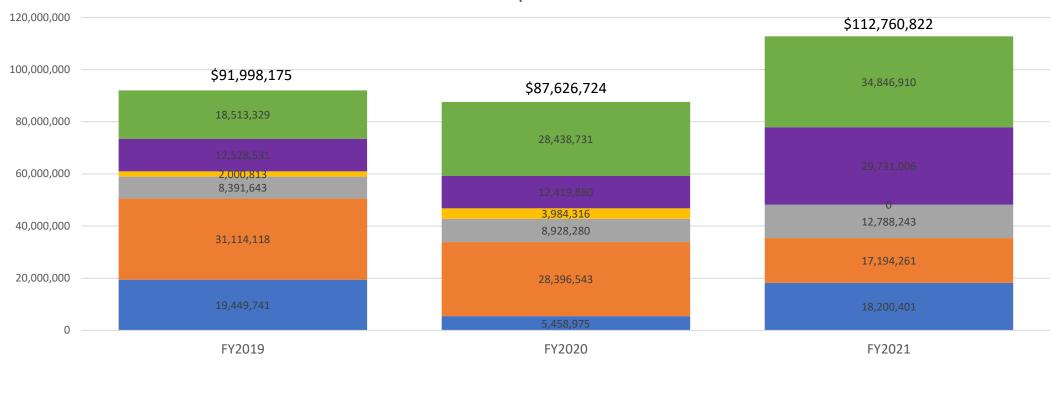






Research – proposals

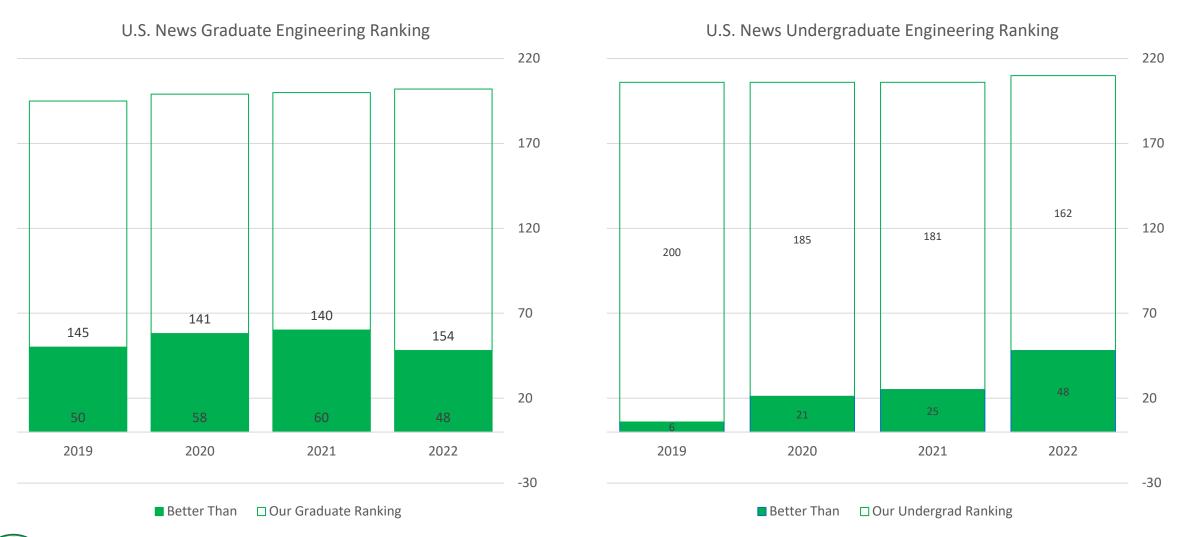




■ BME ■ CSE ■ EE ■ ETECH ■ MEE ■ MTSE

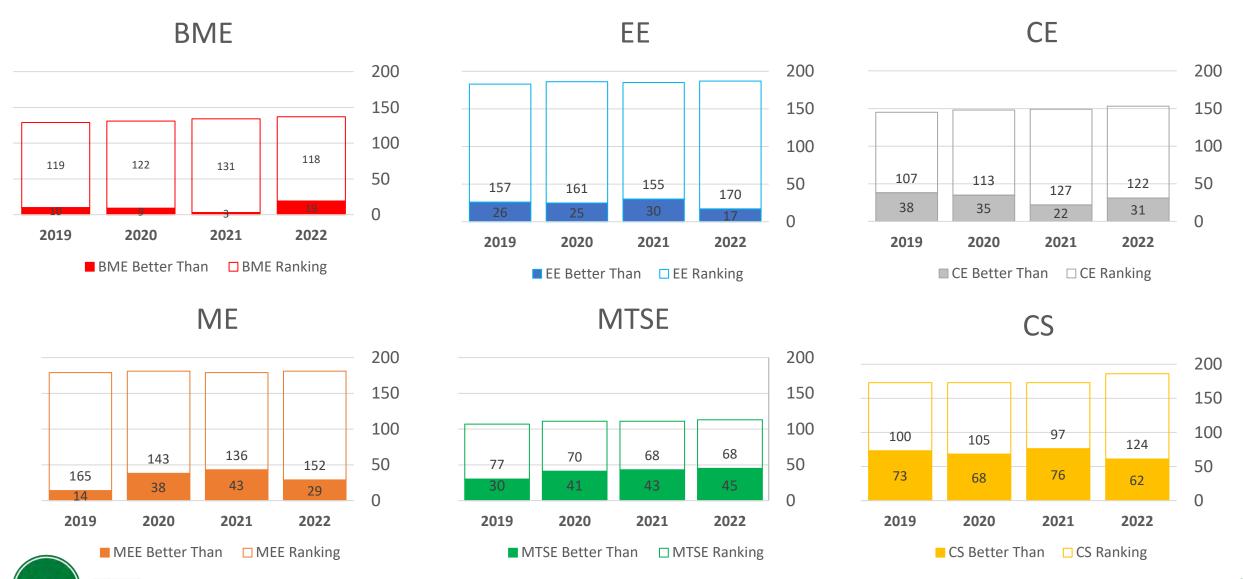


Prominence – research and education





Prominence – research and education



State of the College – past, present, and future

Top 100 – future actions

- Faculty/Staff success, messaging
- Chairs/Dean vision, strategy, messaging

Grow excellence funding, program & reputation

By FY 2025

- \$30M/yrPhD in all
- The III (
- Top 100



Grow faculty

Grow enrollment

By FY 2025

- 4000 BS
- 1000 MS/PhD



By FY 2025

- 120 TTT
- 20-30 TF



