Access to Excellence

The faculty of the Department of Mechanical Engineering values excellence in teaching, research, and service to the community and the profession. Our students learn to be technically competent and socially responsible, while they acquire a solid background to perform diverse engineering functions; to succeed in graduate education; and acquire life-long learning skills.
Dear Colleagues and Friends,

It’s my pleasure to share some of the great news from the Mechanical Engineering Department at UTSA. Our student enrollment and degrees awarded continue to grow and faculty research activities show strong increase. The Mechanical Engineering Undergraduate Program received full 6-year ABET accreditation in 2017. Spring 2018 brought in more great news, our ME graduate program has been ranked #126 among all mechanical engineering programs in the nation by the US NEWS.

Please read below or visit our redesigned department website for all the exciting news. We look forward to another exciting year.

HAI-CHAO HAN, PHD
Professor and Department Chair
Zachry Endowed Chair

Greetings from the Alamo City!

Quick facts

PROGRAMS

- PH.D. IN MECHANICAL ENGINEERING
  (JOINT EFFORT WITH SOUTHWEST RESEARCH INSTITUTE)
- M.S. IN MECHANICAL ENGINEERING;
- M.S. IN ADVANCED MANUFACTURING AND ENTERPRISE ENGINEERING;
- B.S. IN MECHANICAL ENGINEERING;
- OIL & GAS CERTIFICATE PROGRAM
- UNDERGRADUATE ENROLLMENT: 1211
- GRADUATE ENROLLMENT: 100 MASTERS; 53 DOCTORAL

FACULTY

- 23 T/TT ASSISTANT, ASSOCIATE, AND FULL PROFESSORS
- 4 FULL-TIME SENIOR LECTURERS,
- 3 ADJOINT PROFESSORS FROM SWRI.
 THEY INCLUDE 6 ASME FELLOWS,
 1 ASEE FELLOW, 2 AIMBE FELLOWS,
 1 AHA FELLOW, AND 1 SME FELLOW.
- ANNUAL RESEARCH EXPENDITURES: $3.2 MILLION IN FY2017

PUBLICATIONS

- 75 PEER-REVIEWED JOURNAL PAPERS AND BOOK CHAPTERS IN 2017

FOR MORE INFORMATION, PLEASE VISIT OUR DEPARTMENT WEBSITE
http://engineering.utsa.edu/mechanical/
Student News

- Senior Design project, “Roofing Clip Production Machine” (team members: Trent Hejazi, Cory Monroe, Joshua Parkman, Kristian Bounds) won the first place overall award in the fall 2017 College of Engineering Tech Symposium.
- Senior Design Team, (James Harbuck, Ana Macias, Jeffrey Weaver, and Joshua Weber; “VacMAPS (Vaccine Management and Preservation System),”) won first place for the Best Paper Award in the Undergraduate Paper category at ASEE-GSW 2017.

Faculty News

- Bing Dong received the 2017 “Distinguished Service Award” from IEA EBC (September 2017).
- Krystel Castillo received 2017 INFORMS (Institute for Operations Research and the Management Sciences) Minority Early Career Award (September 2017).
- Krystel Castillo and Pranav Bhounsule selected as the winner of “40 under 40” by SABJ (January 2017).
- Amir Karimi wins 2nd place Faculty paper award at the ASEE-GSW (March 2017).
- Krystel won Outstanding Young Faculty Award from the ASEE-GSW section (March 2017).
- Krystel Castillo won UTSA Presidential Distinguish Research Award (April 2017).
- Bing Dong received UTSA’s 2017 “Innovator of the Year” Award (November 2017).
- Dr. Krystel Castillo and Dr. Xiaowei Zeng were promoted to Associate Professor with tenure (September 2017).
ME Faculty

DR. ADEL ALAEDDINI
Assistant Professor
Industrial and Systems Engineering

DR. KIRAN BHAGANAGAR
Associate Professor
Wind Energy and Turbulence Modeling

DR. PRANAV BHOUNSULE
Assistant Professor
Robotics

DR. KRYSTEL CASTILLO
Associate Professor
Supply Chain Modeling

DR. F. FRANK CHEN
Brown Distinguished Chair Professor
Lean Manufacturing

DR. BING DONG
Associate Professor
Smart Building System

DR. YUSHENG FENG
Professor
Computational Bioengineering and Biomedicine

DR. ZHI-GANG FENG
Associate Professor
Thermofluids Modeling

DR. ENDER FINOL
Associate Professor
Vascular Biomechanics

DR. WEI GAO
Assistant Professor
Solid Mechanics and Materials

DR. HAI-CHAO HAN
Professor and Dept Chair
Cardiovascular Biomechanics

DR. LYLE HOOD
Assistant Professor
Medical Devices

DR. AMIR KARIMI
Professor
Metastable Thermodynamics

DR. AMIR JAFARI
Assistant Professor
Robotics and Mechatronics
ME Faculty

DR. RUIJIE LIU
Associate Professor
Hydraulic Fracturing and Geomechanics

DR. VICTOR MALDONADO
Assistant Professor
Flow Control and Sustainable Aviation

DR. RANDALL MANTEUFEL
Associate Professor
Energy Conservation

DR. HARRY MILLWATER,
Dawson Endowed Professor
COE Associate Dean
Mechanics of Materials

DR. BRENDY RINCON TROCONIS
Assistant Professor
Corrosion Engineering

DR. CAN SAYGIN
Professor
AVP
Manufacturing Engineering

DR. HUNGDA WAN
Associate Professor
Sustainability of Manufacturing Systems

DR. XIAODU WANG
Professor
Bone Biomechanics

DR. XIAOWEI ZENG
Associate Professor
Computational Mechanics

YESH P. SINGH, PH.D.
Professor Emeritus
Mechanism Design

MADHAVRAO “RAO” GOVINDARAJU, PH.D.
Senior Lecturer
NanoMaterials

JAMES JOHNSON, MBA
Senior Lecturer
Engineering Design
YOONEUN LEE, PH.D.
Research Assistant Professor
Advanced Manufacturing

ASHOK NEDUNGADI, PH.D.
Senior Lecturer
Advanced Controls

MANUEL J GARCIA, PH.D.
Senior Lecturer
Computational Materials

JOHN SIMONIS, PH.D.
Senior Lecturer
Engineering Design

SIDNEY CHOCRON, PH.D.
Adjoint Professor
Mechanics & Materials

CARL F. POPELAR, PH.D.
Adjoint Professor
Fracture Mechanics

JAMES WALKER, PH.D.
Adjoint Professor
Mechanics & Materials

YOONEUN LEE, PH.D.
Research Assistant Professor
Advanced Manufacturing

BEN CAMPO
Administrative Manager

CAYLA JIMENEZ, MS
Program Coordinator

MERCEDES GARCIA
Administrative Associate II

LINDA DE LA CRUZ
Fiscal Manager

ME Staff
# MS/Ph.D. Graduates

## FALL 2016

<table>
<thead>
<tr>
<th>STUDENT NAME</th>
<th>DEGREE/PROGRAM</th>
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<tbody>
<tr>
<td>Mohamed Awad</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Hung-da Wan</td>
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<tr>
<td>Tyler Bailey</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>F. Frank Chen</td>
</tr>
<tr>
<td>Abhishek Bapat</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Pranav Bhounsule</td>
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<td>Hamid Reza Eslami</td>
<td>Ph.D. in Mechanical Engineering</td>
<td>Arturo Montoya</td>
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<tr>
<td>Syed Hasib Akhter Faruqui</td>
<td>MS in Mechanical Engineering</td>
<td>Adel Alaeddini</td>
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<td>Randal Fielder</td>
<td>MS in Mechanical Engineering</td>
<td>Harry Millwater</td>
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<td>Md. Saimon Islam</td>
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<tr>
<td>Pranav Jagtap</td>
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<td>Deveshkumar Jariwala</td>
<td>MS in Mechanical Engineering</td>
<td>Hung-da Wan</td>
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<tr>
<td>Cyril Jose</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Hai-Chao Han</td>
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<td>Mohammad Mottahedi</td>
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<td>Mahmoud Nagi</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
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<td>Milad Taher Khorsandi</td>
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<td>Adrien Tiokeng Kenyantio</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Laxmi Navya Vempada</td>
<td>MS in Mechanical Engineering</td>
<td></td>
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<tr>
<td>Rushan Wasim</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
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## SPRING 2017

<table>
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<tr>
<th>STUDENT NAME</th>
<th>DEGREE/PROGRAM</th>
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<tbody>
<tr>
<td>Abu Saleh Ahsan</td>
<td>MS in Mechanical Engineering</td>
<td>Xiaodu Wang</td>
</tr>
<tr>
<td>Christopher Bansah</td>
<td>MS in Mechanical Engineering</td>
<td>Kiran Bhaganagar</td>
</tr>
<tr>
<td>Jorge Bastidas</td>
<td>MS in Mechanical Engineering</td>
<td>Zhigang Feng</td>
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<tr>
<td>Jeffrey Bennett</td>
<td>MS in Mechanical Engineering</td>
<td>Yusheng Feng</td>
</tr>
<tr>
<td>Mehdi Chakamehgooyemotlagh</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Adel Alaeddini</td>
</tr>
<tr>
<td>Hernan Chavez Paura Garcia</td>
<td>Ph.D. in Mechanical Engineering</td>
<td>Krystel Castillo</td>
</tr>
<tr>
<td>Carmen De Leon-Acosta</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>F. Frank Chen</td>
</tr>
<tr>
<td>Pablo Fajardo</td>
<td>MS in Mechanical Engineering</td>
<td>Zhigang Feng</td>
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<tr>
<td>Jason Gatewood</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Zhigang Feng</td>
</tr>
<tr>
<td>Christopher Grant</td>
<td>MS in Mechanical Engineering</td>
<td>Randall Manteufel</td>
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<tr>
<td>Michael Nardone</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
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<tr>
<td>Matthew Piper</td>
<td>MS in Mechanical Engineering</td>
<td>Pranav Bhounsule</td>
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<td>Clemente Romero Acosta</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Hung-da Wan</td>
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<td>Nidheesh Seshadri</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<td>Mohammad Shahin</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
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<tr>
<td>Lionel Solomon Paul Jayaraj</td>
<td>MS in Mechanical Engineering</td>
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<tr>
<td>Karan Tilak</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
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</tbody>
</table>

MS/P Ph.D. Graduates
### STUDENT NAME
- Matthew Kirby
- Veronica Lopez Hernandez
- Gautham Ganapathi-narayanan
- Muthukumaran
- James Stadick

### DEGREE/PROGRAM
- MS in Mechanical Engineering
- MS in Advanced Manufacturing & Enterprise Engineering
- MS in Mechanical Engineering
- MS in Advanced Manufacturing & Enterprise Engineering

### ADVISOR
- Xiaodu Wang
- Hung-da Wan
- Amir Jafari
- Krystel Castillo

### STUDENT NAME
- Alejandro Bracho Avila
- Geoffrey Chiou
- Matthew Coleman
- Benjamin Honer
- Krutika Kanfade
- Amin Mirakhorli
- Analisa Roland
- Sue Stankus
- Christian Trevino
- Cyanea Van Trieu-Do
- Shu Yang

### DEGREE/PROGRAM
- MS in Advanced Manufacturing & Enterprise Engineering
- MS in Mechanical Engineering
- MS in Mechanical Engineering
- MS in Mechanical Engineering
- Ph.D. in Mechanical Engineering
- MS in Mechanical Engineering
- Ph.D. in Mechanical Engineering
- MS in Mechanical Engineering
- MS in Mechanical Engineering
- MS in Mechanical Engineering

### ADVISOR
- Can Saygin
- Pranav Bhounsule
- Bing Dong
- Zhigang Feng
- Randall Manteufel
- Bing Dong
- Amir Jafari
- Krystel Castillo
- Pranav Bhounsule
- Yusheng Feng
- Xiaodu Wang

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### Study Abroad Program

**Launched in Summer 2017**

**ME UG Student Eric Cantu participated in a Study Abroad Program at BeiHang University in Beijing in summer 2017.**

More students have enrolled to participate in summer 2018.

---

Eric Cantu and Professor Xiaodu Wang at BeiHang University.

Eric Cantu in Beijing.
New Research Grants

<table>
<thead>
<tr>
<th>PI/CO-PI NAME</th>
<th>PROJECT TITLE</th>
<th>SPONSOR</th>
<th>DATE OF FUNDING</th>
<th>PROJECTED TOTAL FUNDING</th>
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<tbody>
<tr>
<td>Bhounsule, Pranav</td>
<td>Accelerated path teaching for robotic routing using ROS Industrial framework</td>
<td>Southwest Res Inst</td>
<td>2017-04-27</td>
<td>34311</td>
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<td>Bhounsule, Pranav</td>
<td>Control Systems Education and Outreach to Low-Income High-School Students in San Antonio</td>
<td>Arizona State University</td>
<td>2017-11-15</td>
<td>10000</td>
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<tr>
<td>Castillo Villar, Krystel</td>
<td>An Open Source Based Proactive Energy Management System (PEMS) for Integrated Control of Battery Energy Storage System (BESS) and Solar-Powered Buildings</td>
<td>City Public Svc</td>
<td>2017-08-24</td>
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<tr>
<td>Castillo Villar, Krystel</td>
<td>Cloud-based Data Analytics To Support Sustainable Clean Energy Production</td>
<td>University of Texas at San Antonio Open Cloud Institute</td>
<td>2017-10-06</td>
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<td>Dong, Bing</td>
<td>ICORPS: Dynamic Real-Time Energy Management System (EMS) to Improve Building Energy Efficiency and Wellness</td>
<td>Natl Science Fdn</td>
<td>2017-03-09</td>
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<tr>
<td>Dong, Bing</td>
<td>Marriott Strategic Data Analysis and Management Project</td>
<td>Marriott Intl Inc</td>
<td>2017-06-23</td>
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<tr>
<td>Dong, Bing and and Xu, Jeff Qiang</td>
<td>An Open Source Proactive Energy Management System (PEMS) for Integrated Control of Energy Storage and Solar Powered Buildings</td>
<td>Leaptran Inc</td>
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<td>PI/CO-PI NAME</td>
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<tr>
<td>Feng, Yusheng</td>
<td>Develop A Mobile Visualization System for Teaching and Research</td>
<td>UTSA OIT</td>
<td>2017-11-16</td>
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<td>Gao, Wei</td>
<td>GREAT: Advanced Materials based on Two-dimensional Building Blocks - Computational Design based on Chemistry and Topology</td>
<td>UTSA VPR Office</td>
<td>2017-08-02</td>
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<td>Hood, Robert</td>
<td>GREAT: An Improved Cystoscopic Approach for 3D Imaging of Intrabladder Cancers</td>
<td>UTSA VPR Office</td>
<td>2017-08-11</td>
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<td>Hood, Robert</td>
<td>Development of an Improved Suction Device Design</td>
<td>University of TX HSC at San Antonio 745</td>
<td>2017-12-14</td>
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<td>Millwater, Harry</td>
<td>Fleet Management and Efficiency Improvements - Extensions to the SMART</td>
<td>DT Software</td>
<td>US DOT Federal Aviation Admn</td>
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<td>Millwater, Harry</td>
<td>Digital Twin Big Data and High-Performance Computing in the Cloud</td>
<td>University of Texas at San Antonio Open Cloud Institute</td>
<td>2017-10-04</td>
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<td>Millwater, Harry</td>
<td>Faculty Development Program at the University of Texas at San Antonio: Probabilistic Risk Assessment of Stress Corrosion Cracking in Nuclear Facilities</td>
<td>US Nuclear Regulatory Comm</td>
<td>2017-06-30</td>
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<td>Rincon Troconis, Brendy</td>
<td>Faculty Development Program at the University of Texas at San Antonio: Probabilistic Risk Assessment of Stress Corrosion Cracking in Nuclear Facilities</td>
<td>US Nuclear Regulatory Comm</td>
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<td>CONNECT: Effects of Triazine-Based H2S Scavenger Byproducts on the Film Composition and Cracking of Carbon Steel in Oilfield Applications</td>
<td>UTSA VPR Office</td>
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<td>Rincon Troconis, Brendy</td>
<td>Development of Technological Corrosion and Materials Test Site for Student Advancement</td>
<td>UTSA OIT</td>
<td>2017-11-16</td>
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<td>Wang, Xiaodu</td>
<td>Supplement to Multiscale modeling of ultrastructural origins of bone fragility</td>
<td>Natl Science Fdn</td>
<td>2017-05-01</td>
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<td>Wilkerson, Justin</td>
<td>Void Dominated Failure</td>
<td>John Hopkins University</td>
<td>2017-01-21</td>
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**TOTAL**  
$4158729


Department Growth

**FIGURE 1 | UG ENROLLMENT**

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<tr>
<th>ACADEMIC YEAR</th>
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**FIGURE 2 | ME GRADUATE STUDENT ENROLLMENT**

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**FIGURE 3 | PHD ENROLLMENT**

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Figure 4 | UG Degree Awarded

Figure 5 | MS and PhD Degrees Awarded

Figure 6 | Research Expenditure
Department Growth

**FIGURE 7 | RESEARCH EXPENDITURE**

<table>
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<th>NEW GRANTS (MILLIONS)</th>
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**FIGURE 8 | JOURNAL PAPERS PUBLISHED**

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<td>80</td>
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<table>
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<tr>
<td>2016</td>
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<tr>
<td>2017</td>
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</table>
Department Faculty Awards

- Graduated mentor award: Harry Millwater for graduate 1 PhD and 4 MS students.
- Mentor with most student publications: Bing Ding for 5 journal papers with students.
- Most journal publications: Hai-Chao Han for 8 peer-reviewed journal papers
- Largest research expenditure: Harry Millwater ($626K)
- Largest research expenditure at the Assistant professor level: Krystel Castillo ($233K)
- Best UG course student evaluation: Randy Manteufel (4.8)
- Best Grad course student evaluation: Xiaowei Zeng (5.0)
- UG course with largest enrollment: Madhavrao “Rao” Govindaraju (135)
- UG course with largest enrollment (T/TT): Amir Jafari (113)
- Grad course with largest enrollment: Yusheng Feng (39)
- Services: Amir Karimi for leading the effort in ABET preparation, HungDa Wan and Randy Manteufel for serving as Assistant Department Chair.

ME Department Advisory Council Members

- **Jahan Eftekhar (Chair),** Founder, J. Eftekhar & Associates
- **Norm Abramson,** NAE member, Southwest Research Institute (Retired)
- **Henry Bernstein,** President, Gas Turbine Materials Associates
- **Randy Brown,** Zachry Industrial Inc.
- **Steven Griffin,** Intertek
- **Dan Gonzalez,** VP, StandardAero
- **J. Michael Harris (PE),** CPS Energy
- **Bryan Lancon,** VP, BRL Consultants
- **Liza Meyer,** City of San Antonio, City Manager’s Office
- **Jose Rodriguez (PE),** Goetting & Associates
- **Luis Sanchez,** VP, Harland Clarke
- **Darren Simmons,** VP, Aalberts Dispense Technologies