2015-2016 REPORT
Dear Colleagues and Friends,

This past year was one of continued growth and success of students and faculty members. Our student enrollment continues to grow with 1200 undergraduate, over 90 Masters and over 40 doctoral students this fall. With the addition of 4 new faculty members (largest hiring in over 20 years), our faculty size has increased to 24 tenured/tenure track faculty members. We successfully completed the ABET review and graduate program review this fall. Our externally sponsored research expenditure reached $3.5 million for FY2014-2015, and our faculty secured $3.4 million in new grants in 2016. Our students and faculty have received various recognitions and awards. Please read below or visit our department website for all the exciting news. We look forward to another exciting year.

Have a great year!

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

Greetings from the Alamo City!

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This past year was one of continued growth and success of students and faculty members. Our student enrollment continues to grow with 1200 undergraduate, over 90 Masters and over 40 doctoral students this fall. With the addition of 4 new faculty members (largest hiring in over 20 years), our faculty size has increased to 24 tenured/tenure track faculty members. We successfully completed the ABET review and graduate program review this fall. Our externally sponsored research expenditure reached $3.5 million for FY2014-2015, and our faculty secured $3.4 million in new grants in 2016. Our students and faculty have received various recognitions and awards. Please read below or visit our department website for all the exciting news. We look forward to another exciting year.

Have a great year!

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Professor and Department Chair
Zachry Endowed Chair

Quick facts

PROGRAMS
- M.S. IN MECHANICAL ENGINEERING
- OIL & GAS CERTIFICATE PROGRAM
- M.S. IN ADVANCED MANUFACTURING AND ENTERPRISE ENGINEERING
- PH.D. IN MECHANICAL ENGINEERING (joint effort with Southwest Research Institute)
- UNDERGRADUATE ENROLLMENT: 1223
- GRADUATE ENROLLMENT: 98 MASTERS; 42 DOCTORAL

FACULTY
- 24 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: $2.4 MILLION IN FY2016

PUBLICATIONS
- 38 PEER-REVIEWED JOURNAL PAPERS AND BOOK CHAPTERS IN 2015
- 50 PEER-REVIEWED JOURNAL PAPERS AND BOOK CHAPTERS IN 2016

FOR MORE INFORMATION VISIT
http://engineering.utsa.edu/me
Major Events

- Faculty retreat in May and August 2016
- Advisory Council meeting in September 2016
- The 2nd annual Doctoral Student Research Seminar was held in October 2016
- ABET site visit in October 2016
- Graduate Program Review in November 2016
- Beihang University from Beijing visited and signed collaborative agreement with UTSA on November 30, 2016. The agreement facilitates collaboration in research and student and faculty exchange.
- The first ME Undergraduate luncheon on December 1, 2016
- The 1st faculty (Dr. Wang) led ME Study-abroad program will start in the summer of 2017, hosted by Beihang University in Beijing.

Awards & News

- Justin Wilkerson and Adel Alaeddini received Air Force Office of Scientific Research (AFOSR) Young Investigator Research Program (YIRP) award 2016
- Harry Millwater awarded the Samuel G. Dawson Endowed Professorship
- Dr. Zhigang Feng was promoted to Associate Professor with tenure in September 2016
- HungDa Wan received IIE Teaching award
- Ender Finol received NIH and AHA grants and research was featured in Texas Public Radio in September 2016
- Dr. Krystel Castillo Wins Best Paper Award at ISERC in March 2016
- James Johnson received “Award of Excellence” from ASTM in December 2016.

Student News

- We conferred 168 Bachelor's degrees, 32 master's degrees and 4 doctoral degrees in 2014-2015 academic year (14%, 23% and 100% increases respectively).
- Two Senior Design teams won the 1st and 2nd place awards in the Tech Symposiums in fall 2016.
- ME Doctoral Student, Krishnan Krishnaiyer received 1st place in Best Poster Award and 3rd place in Best Paper Award at the IISE conference 9/2016.

Faculty and Staff

- Dr. Adel Alaeddini: Assistant Professor, Industrial and Systems Engineering
- Dr. Zhi-Gang Feng: Associate Professor, Thermofluids Modeling
- Dr. Kiran Bhaganagar: Associate Professor, Wind Energy and Turbulence Modeling
- Dr. Ender Finol: Associate Professor, Vascular Biomechanics
- Dr. Pranav Bhounsule: Assistant Professor, Robotics
- Dr. Kristel Castillo: Assistant Professor, Supply Chain Modeling
- Dr. F. Frank Chen: Brown Distinguished Chair Professor, Lean Manufacturing
- Dr. Bing Dong: Associate Professor, Building Energy
- Dr. Yusheng Feng: Professor, Computational Bioengineering and Biomedicine
- Dr. Amir Jafari: Assistant Professor, Robotics and Mechatronics
- 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
# Faculty and Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Role</th>
<th>Research/Teaching Focus</th>
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<tbody>
<tr>
<td><strong>Dr. Xiaodu Wang</strong></td>
<td>Professor</td>
<td>Bone Biomechanics</td>
</tr>
<tr>
<td><strong>Dr. Justin Wilkerson</strong></td>
<td>Assistant Professor</td>
<td>Extreme Materials</td>
</tr>
<tr>
<td><strong>Dr. Ruijie Liu</strong></td>
<td>Associate Professor</td>
<td>Hydraulic Fracturing and Geomechanics</td>
</tr>
<tr>
<td><strong>Dr. Hungda Wan</strong></td>
<td>Associate Professor</td>
<td>Sustainability of Manufacturing Systems</td>
</tr>
<tr>
<td><strong>Dr. Victor Maldonado</strong></td>
<td>Assistant Professor</td>
<td>Flow Control and Sustainable Aviation</td>
</tr>
<tr>
<td><strong>Dr. Harry Millwater</strong></td>
<td>Associate Professor</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td><strong>Dr. Xiaowei Zeng</strong></td>
<td>Assistant Professor</td>
<td>Computational Mechanics</td>
</tr>
<tr>
<td><strong>Dr. Saygin</strong></td>
<td>Professor</td>
<td>Manufacturing Engineering</td>
</tr>
<tr>
<td><strong>Dr. Can Saygin</strong></td>
<td>Assistant Professor</td>
<td>Corrosion Engineering</td>
</tr>
<tr>
<td><strong>Dr. John Simonis</strong></td>
<td>Senior Lecturer</td>
<td>Engineering Design</td>
</tr>
<tr>
<td><strong>Dr. Ashok Nedungadi</strong></td>
<td>Senior Lecturer</td>
<td>Advanced Controls</td>
</tr>
<tr>
<td><strong>Dr. Ruijie Liu</strong></td>
<td>Administrations Manager</td>
<td>Manufacturing Engineering</td>
</tr>
<tr>
<td><strong>Dr. Ben Campos</strong></td>
<td>Administrative Manager</td>
<td>Administrative Design</td>
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<tr>
<td><strong>Dr. Carl Poplar</strong></td>
<td>Adjunct Professor</td>
<td>Fracture Mechanics</td>
</tr>
<tr>
<td><strong>Dr. James Walker</strong></td>
<td>Adjunct Professor</td>
<td>Mechanics &amp; Materials</td>
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<tr>
<td><strong>Dr. James Johnson</strong></td>
<td>Senior Lecturer</td>
<td>Engineering Design</td>
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<tr>
<td><strong>Dr. Sidney Chocron</strong></td>
<td>Adjunct Professor</td>
<td>Mechanics &amp; Materials</td>
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<tr>
<td><strong>Dr. Manuel Garcia</strong></td>
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<tr>
<td><strong>Dr. James Walker</strong></td>
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<td>Engineering Design</td>
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<tr>
<td><strong>Dr. Victor Maldonado</strong></td>
<td>Professor</td>
<td>Energy Conservation</td>
</tr>
<tr>
<td><strong>Dr. Madhavrao “Rao” Govindaraju</strong></td>
<td>Senior Lecturer</td>
<td>Nanomaterials</td>
</tr>
<tr>
<td><strong>Dr. Cayla Jimenez</strong></td>
<td>Program Coordinator</td>
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<tr>
<td><strong>Dr. Carlos Garcia</strong></td>
<td>Administrative Associate II</td>
<td>Administrative Associate II</td>
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<tr>
<td><strong>Dr. Maria Del Carmen Montalvo</strong></td>
<td>Department Fiscal Specialist</td>
<td>Administrative Associate II</td>
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## 2015-2016 MS/Ph.D. Graduates

### FALL 2015

<table>
<thead>
<tr>
<th>STUDENT NAME</th>
<th>DEGREE/PROGRAM</th>
<th>ADVISOR</th>
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<tbody>
<tr>
<td>Tasnia Fatima</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Emma Flores</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>F. Frank Chen</td>
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<tr>
<td>Bianca Juarez</td>
<td>MS in Mechanical Engineering</td>
<td>Hung-da Wan</td>
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<tr>
<td>Karan Kurani</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Victor Maldonado</td>
</tr>
<tr>
<td>Sabah Mahmood</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Peter Mancuso</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
</tr>
<tr>
<td>Phani Teja Hatalapatil</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Adel Alededini</td>
</tr>
<tr>
<td>Karmjit Sangar</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Haoran Xu</td>
<td>MS in Mechanical Engineering</td>
<td>Xiaodu Wang</td>
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### SPRING 2016

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<th>STUDENT NAME</th>
<th>DEGREE/PROGRAM</th>
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<tbody>
<tr>
<td>Paul Garza</td>
<td>MS in Mechanical Engineering</td>
<td>Hai-Chao Han</td>
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<tr>
<td>Nihar Gupta</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Hung-da Wan</td>
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<tr>
<td>Soham Gupta</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Abhishek Harishchandra</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
</tr>
<tr>
<td>Jonathan Hart</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Krystel Castillo</td>
</tr>
<tr>
<td>Seunghee Hong</td>
<td>MS in Mechanical Engineering</td>
<td>Adel Alededini</td>
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<tr>
<td>Michael Lasch</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Yusheng Feng</td>
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<tr>
<td>Jake Montez</td>
<td>MS in Mechanical Engineering</td>
<td>Xiaowei Zeng</td>
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<tr>
<td>Jimmy Postwala</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Mario Puente</td>
<td>MS in Mechanical Engineering</td>
<td>Hung-da Wan</td>
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<tr>
<td>Christian Rios</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>F. Frank Chen</td>
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<tr>
<td>Moises Rodriguez</td>
<td>MS in Mechanical Engineering</td>
<td>F. Frank Chen</td>
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<tr>
<td>Prithviraj Sarker</td>
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<tr>
<td>J Welch</td>
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<tr>
<td>Shah Md Yasin Zaman</td>
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<td>Octavio Zavala Castro</td>
<td>MS in Mechanical Engineering</td>
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<td>Mohammad Abed Motasemi</td>
<td>MS in Advanced Manufacturing &amp; Enterprise Engineering</td>
<td>Adel Alededini</td>
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<tr>
<td>Mohammad Rahman</td>
<td>Ph.D. in Mechanical Engineering</td>
<td>Yusheng Feng</td>
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### SUMMER 2016

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<tr>
<th>STUDENT NAME</th>
<th>DEGREE/PROGRAM</th>
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<tbody>
<tr>
<td>Abir Choubey</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<tr>
<td>Nathan Crosby</td>
<td>MS in Mechanical Engineering</td>
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<td>Fudu Hasan</td>
<td>MS in Mechanical Engineering</td>
<td>Victor Maldonado</td>
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<td>Edward Hooks</td>
<td>MS in Mechanical Engineering</td>
<td>Bing Dong</td>
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<td>Li-Qiang Lin</td>
<td>MS in Mechanical Engineering</td>
<td>Xiaowei Zeng</td>
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<tr>
<td>Eric Liu</td>
<td>MS in Mechanical Engineering</td>
<td>Yusheng Feng</td>
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<tr>
<td>Gaelen McFadden</td>
<td>MS in Mechanical Engineering</td>
<td>Bing Dong</td>
</tr>
<tr>
<td>Carolina Quintana</td>
<td>MS in Mechanical Engineering</td>
<td>Harry Millwater</td>
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<tr>
<td>Mohammed Sazzad</td>
<td>MS in Mechanical Engineering</td>
<td>Kiran Bhaganagar</td>
</tr>
</tbody>
</table>

## American Society of Mechanical Engineers (ASME)

Members of the UTSA College of Engineering student organization American Society of Mechanical Engineers (ASME), with the help of students from the Society of Automotive Engineering, built two PVC and plastic trucks in support of Christian Senior Services’ Meals on Wheels San Antonio’s Spirit of Compassion Luncheon. The ASME members not only built the two trucks, but they also assembled one of them during the luncheon to give the audience a visual reminder of how important the Meals on Wheels fleet of vehicles is to the organization. UTSA President Ricardo Romo gave the keynote address at the event, and Nancy E.C. Willaford and Meghan Grace from Pape-Dawson Engineers were recognized for their service to Meals on Wheels. UTSA College of Engineering students are not only making a difference here on campus, but in the local community as well.

## 2016 Faculty Awards

### RESEARCH
- KRISTEL CASTILLO for leading new research grants ($124,8k new/$649k personal share)
- HARRY MILLWATER for leading research expenditure ($98k)
- FRANK CHEN & VICTOR MALDONADO for leading the number of MS students graduated (5 each)
- HAI-CHAO HAN for leading peer-reviewed journal publications (9 papers published)
- XIAODU WANG for leading paper citations (over 5,000 total/over 3,000 since 2011)

### TEACHING
- MADHAVRAO “RAO” GOVINDARAJU for teaching largest UG classes (enrollment of 176)
- PRANAV BHounsule for teaching largest classes (enrollment 22 with excellent student evaluation of 4.7) among T/TT faculty
- RANDY MANTEUFEL for receiving the highest UG core course student evaluation (4.89)
- XIAOWEI ZENG for receiving the highest graduate course student evaluation (5.0)*

### SERVICES
- HUNGDA WAN for serving as department Assistant Chair for the last 3 years.
Welcome! New Faculty and Staff Members

WEI GAO, PHD
Assistant Professor
Ph.D., The University of Texas at Austin

AREAS OF RESEARCH INTEREST
- Mechanical behavior of materials
- Low dimensional nanomaterials
- Biological & bio-inspired materials & structures
- Computational material design
- Adv-materials manufacturing, characterization and testing

BRENDY RINCON TROCINIS, PHD
Assistant Professor
Ph.D., The Ohio State University

AREAS OF RESEARCH INTEREST
- Stress Corrosion Cracking
- Hydrogen Embrittlement
- Coating Adhesion
- Passivation
- Atmospheric Corrosion
- Corrosion Inhibitors

LYLE R. HOOD, PHD
Assistant Professor
Ph.D., Virginia Tech-Wake Forest

AREAS OF RESEARCH INTEREST
- Medical Device Design
- Controlled Drug Delivery
- MEMS/NEMS
- Microneedles
- Photothermal Therapies
- Minimally-Invasive Interventions

MANUEL GARCIA, PHD
Senior Lecturer
Ph.D., University of Sydney, Australia

AREAS OF RESEARCH INTEREST
- Fluid Mechanics
- Computational Mechanics

MERCEDES GARCIA
Administrative Associate II

MARIA DEL CARMEN MONTALVO
Department Fiscal Specialist

2016 New Research Grants

PI/CO-PI
PROJECT TITLE
SPONSOR
FUNDED DATE
TOTAL PROJECTED FUNDING

Alaeddini, Adel
Prediction and Optimization in Engineered Residual Stresses (ERS) with Minimum Data
Clarkson Aerospace Corp
2016-08-01
$100,000.00

Alaeddini, Adel
Active Learning in Expensive Testing Design and Optimization
US Dept of the Air Force
2016-06-01
$371,937.00

Alaeddini, Adel
A Novel Probabilistic Methodology for Prediction of Emerging Diseases in Patients with Multiple Chronic Conditions
Natl Inst of Health
2016-05-04
$441,000.00

Potter, Lloyd Alaeddini, Adel
Task order for the base year Support Services
US Dept of Vet Affairs
2016-09-30
$33,116.52

Bhaganganar, Kiran
Novel technology for detection and prediction of spreading of air-borne chemicals
Minority Serving Institutions STEM Research & Development Consortium (MSRDC)
2016-10-19
$105,383.00

Bhounsule, Pranav
Cfeli: Ri: Energy Effective and Versatile Bipedal Robots Using Event-Based Switching Between Parameterized Steady-State Controllers
Natl Science Fdn
2016-03-18
$159,024.00

Bhounsule, Pranav
Accelerated path teaching for robotic routing using ROS Industrial framework
Southwest Res Inst
2016-08-22
$12,786.00

Bhounsule, Pranav; Jafari, Amir
GREAT: Highly customizable, lightweight artificial legs based on embedding actuators and sensors in 3D printed parts.
UTSA VPR Office
2016-03-24
$275,760.00

Castillo Villar, Krystel; Sharif, Hatim
Interdisciplinary Hands-on Research Traineeship and Extension Experiential Learning in Bioenergy/Natural Resources/Economics/Rural
US Dept of Agriculture
2016-03-24
$20,000.00
### 2016 New Research Grants

<table>
<thead>
<tr>
<th>PI/CO-PI</th>
<th>PROJECT TITLE</th>
<th>SPONSOR</th>
<th>FUNDED DATE</th>
<th>TOTAL PROJECTED FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Castillo Villar, Krystel</td>
<td>Cloud-based Decision Support System Integrating Biomass Quality, Uncertainty and Risk to Optimize the Production of Second-generation Biofuels</td>
<td>Oklahoma State University</td>
<td>2016-11-18</td>
<td>$150,000</td>
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<tr>
<td>Castillo Villar, Krystel</td>
<td>Web-Based Tool to Reduce GHG Emissions from Coal</td>
<td>US Env Protection Agency</td>
<td>2016-12-20</td>
<td>$15,000</td>
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<tr>
<td>Chen, Fengshan; Wan, Hung-Da</td>
<td>CAMLS Education and Mentoring Program for Lean Manufacturing Enterprise Implementation</td>
<td>Goodheart Specialty Foods Co</td>
<td>2016-01-20</td>
<td>$62,000.00</td>
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<tr>
<td>Taha, Ahmad; Dong, Bing; Gatsis, Nikolaos</td>
<td>Dynamic Cyber-Attack Detection and Mitigation for Secure Smart Grids</td>
<td>UTSA VPR Office</td>
<td>2016-02-26</td>
<td>$37,615.00</td>
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<tr>
<td>Dong, Bing; Vega, Rolando; Shephard, Les</td>
<td>Behavior Driven Transactive Energy For Residential Buildings</td>
<td>US Dept of Energy</td>
<td>2016-02-26</td>
<td>$37,615.00</td>
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<tr>
<td>Dong, Bing; Taha, Ahmad; Gatsis, Nikolaos</td>
<td>EAGER: Collaborative Research: Empowering Smart Energy Communities: Connecting Buildings, People, and Power Grids</td>
<td>Natl Science Fdn</td>
<td>2016-08-05</td>
<td>$173,420.00</td>
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<td>Dong, Bing</td>
<td>PEP: NSF: Behavior-driven energy usages</td>
<td>UTSA VPR Office</td>
<td>2016-04-27</td>
<td>$10,000.00</td>
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<td>Feng, Yusheng</td>
<td>Radical Cystectomy compared with combined Moda Treatment for Muscle Invasive Bladder Cancer: A Pilot Randomized Control Trial</td>
<td>Univ of TX HSC at San Antonio 745</td>
<td>2016-04-19</td>
<td>$10,140.00</td>
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<tr>
<td>Feng, Yusheng</td>
<td>Medical Device Design for Emergency Medicine</td>
<td>Univ of TX HSC at San Antonio 745</td>
<td>2016-06-21</td>
<td>$9,600.00</td>
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<td>Rincon Trocosis, Brendy</td>
<td>Effect of Passive Film Composition on the Electrochemical Behavior and Cracking of Corrosion Resistant Alloys Utilizing Surface Enhanced Raman Spectroscopy</td>
<td>Clarkson Aerospace Corp</td>
<td>2016-07-19</td>
<td>$7,500.00</td>
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<tr>
<td>Saygin, Can; Wan, Hung-Da</td>
<td>Incorporating Lean-Six Sigma Methodologies into the Institute for Integration of Medicine and Science</td>
<td>Univ of TX HSC at San Antonio 745</td>
<td>2016-07-28</td>
<td>$50,000.00</td>
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<td>Guo, Ruyan; Bhalla, Amar; Wan, Hung-Da; Joo, Youngjoong; Binzaid, Shuza; Ramasubramanian, Anand</td>
<td>Hybrid 3-D Digital Deposition Platform for Bottom-Up Fabrication of Multicomponent-Multiferroic Composites (DURIP: H3DPlatform)</td>
<td>US Dept of the Navy</td>
<td>2016-08-23</td>
<td>$577,100.00</td>
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<td>Saygin, Can; Velasquez, Robert; Chen, Fengshan; Wan, Hung-Da</td>
<td>Probabilistic Modeling of Random Variables and K-Solution Developments for General Aviation - Extensions to the SMART</td>
<td>DT Software</td>
<td>US DOT Federal Aviation Admin</td>
<td>2016-04-18</td>
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<tr>
<td>Wilkerson, Justin</td>
<td>A-multiphysical materials-by-design approach to ignition desensitization</td>
<td>US Dept of Defense</td>
<td>2016-05-12</td>
<td>$360,000.00</td>
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<tr>
<td>Zeng, Xiaowei</td>
<td>A method for 3D printing of high-performance plastics</td>
<td>UTSA VPR Office</td>
<td>2016-06-01</td>
<td>$20,000.00</td>
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**Total** $4,379,881


