



PRODUCTIVITY  
**DASHBOARD**

**Impact Story**



**Ma creates better metals for manufacturing and beyond with nanoparticles**

Dr. Chao Ma is thinking small to make a big impact in the field of laser manufacturing. Ma, an assistant professor in the Department of Engineering Technology and Industrial Distribution at Texas A&M University, and a team of researchers from the University of California at Los Angeles and Missouri University of Science and Technology are using nanoparticles to create effective control of melting and solidification behaviors of materials.



# ENGINEERING

TEXAS A&M UNIVERSITY

## Impact

- 19 National Academy of Engineering members and 2 National Academy of Science member (FY17)
- 8 International academy members (FY16)
- Technology commercialization (Since FY94)  
202 License agreements  
27 Start-up companies
- Distinguished Professors – 17
- Highly cited researchers (by Thomas Reuters)  
2001 – 2  
2014 – 3
- 203 Fellow grades in professional societies
- 63 Authored textbooks and book chapters
- 85% of May 2014 BS engineering graduates had job offers or plans to pursue graduate school (data voluntarily reported by students to the Texas A&M University Career Center; actual number may be higher)
- 564 PhDs in academia (52% in US Institutions since 1991)

STUDENT CREDIT HOURS (SCH) and WEIGHTED STUDENT CREDIT HOURS (WSCH)		
	SCH	WSCH
FY16	232,884	1,181,893
FY15	209,315	1,112,783
FY14	192,400	1,051,525
FY13	181,680	996,068
FY12	175,985	954,942
FY11	170,707	928,334

STUDENT ENROLLMENT*			
	Undergrad	Grad	Total
Fall 2016	14,189	3,978	18,167
Fall 2015	12,942	3,975	16,917
Fall 2014	11,824	3,843	15,667
Fall 2013	10,544	3,473	14,017
Fall 2012	9,659	3,194	12,853
Fall 2011	9,513	3,110	12,623

\*Includes Texas A&M University, Texas A&M University at Galveston and Texas A&M University at Qatar

## Productivity

- Rankings  
Graduate – 7<sup>th</sup>  
Undergraduate – 8<sup>th</sup>  
(Source: U.S. News & World Report, public institutions)
- 1,530 Refereed journal papers (2015)
- 1,308 Selective conference papers (2015)
- 244 US and international patents (since FY94)
- \$68.6 million in research expenditures (FY16)  
-51% Federal (TEES Centers funding not included)
- 100 Young Investigator awards (NSF CAREER, Air Force, Navy, DARPA, and PECASE, since 2004)
- Number of graduates (COE for FY16)  
BS – 1,869  
MS – 896  
PhD – 249
- Average years to degree (FY11-FY16 average)  
BS – 4.60 years  
MS – 2.30 years  
PhD – 5.73 years
- Students with international experiences through study abroad program participation  
FY16 – 1,024  
FY15 – 715  
FY14 – 601  
FY13 – 594  
FY12 – 490  
FY11 – 434  
FY10 – 372
- Distance education (TEES & COE, AY15)  
Number of courses – 83  
Number of students – 1,221
- 2,063 Scholarships and fellowships awarded (FY16)
- More than \$4.5 million in scholarships and fellowships awarded (FY16)
- Occupied Endowed Positions  
Chairs – 39  
Professorships – 61  
Career Development Professorships – 10  
Faculty Fellows – 22
- TEES Funded Professorships  
TEES research professorships – 7  
TEES distinguished research professorships – 7

## Service

- 526 Editorships and editorial board memberships
- 106 National board memberships/testimonials
- Continuing education (TEES & COE, FY15)  
Number of courses – 131  
Number of students – 11,582
- One faculty on interpersonal agency appointment
- 111 consultations by faculty (FY15)

## Diversity

- Faculty (Fall 2016)  
Male – 88%  
Female – 12%
- Hispanic – 7.6%  
African-American – 1.2%  
White – 56.2%  
Asian – 34.0%  
Native American – 0.5%  
Other – 0.5%
- Staff (Fall 2016)  
Male – 39.5%  
Female – 60.5%
- Hispanic – 13.3%  
African-American – 4.0%  
White – 70.4%  
Asian – 10.2%  
Two or more – 0.6%  
Other – 1.5%
- External Advisory Committees (FY15)  
Male – 89%  
Female – 11%
- African American – 2%  
Hispanic – 5%  
White – 92%  
Asian – 1%

STUDENT DIVERSITY (College of Engineering - Fall 2016) Official 20th day not certified by DARS Enrollment Report					
	Female	Hispanic	African-American	Asian	International
BS	22.1%	22.6%	2.6%	9.5%	2.9%
Master's	20.4%	6.6%	2.2%	4.3%	57.7%
PhD	21.8%	4.0%	1.3%	3.4%	71.9%