

Texas Higher Education Coordinating Board
 University of Texas at Dallas
 18 Characteristics of Doctoral Programs in the Erik Jonsson School

Materials Science and Engineering
 CIP code 14.1801.00

1. Number of Degrees Awarded per Academic Year

Academic Year	
2007-08	0
2008-09	1
2009-10	4
3-year average	1.67

2. Percent of First-year Doctoral Students Who Graduate Within Ten Years

10-year data are not yet available for this degree program because the degree program was authorized less than 10 years ago.

3. Average Time to Degree

Academic Year	Semesters to degree*
2007-2008	
2008-2009	14.60
2009-2010	15.50

*At the University of Texas at Dallas, there are 3 semesters in every calendar year.

4. Employment Profile

Name	Graduating Year	Employer	Position	Date Hired
Dongkyu Cha	Spring 2009	King Abdullah Univ. (KAUST)	Research Scientist	October 2010 - present
Tao Zheng	Fall 2009			
Bongki Lee	Spring 2010	Global Foundries	Sr. Technology & Integration Engineer	December 2010-current
Marko Milojevic	Summer 2010	Micron Technology Inc.	Emerging Memory Engineer	June 2010-current
Li Tao	Summer 2010	UT Austin Microelectronics Research Center		August 2010-current

5. Admissions Criteria

- Student has met standards equivalent to those currently required for admission to the Ph.D. or Master's degree programs in Electrical Engineering, Chemistry, Physics, or Biology.
- Grade-point average in graduate-level course work of 3.5 or better on a 4-point scale.
- GRE scores of 500, 700 and 4 for verbal, quantitative and analytical writing components, respectively.

6. Percentage of Full-time Students with Financial Support (for last 3 fall semesters)

- Fall 2007: 100 %
- Fall 2008: 100 %
- Fall 2009: 94.6%

7. Average Financial Support Provided

\$1,950 monthly stipend
(Tuition & fees not included)

8. Student-Core Faculty Ratio

- 2007-2008: 3.58
- 2008-2009: 4.76
- 2009-2010: 4.43

9. Core Faculty Publications

FY	Publications
2008	Not listed (new department)
2009	271
3-year average	90

10. Core Faculty External Grants

FY	Total Funds	Average per Faculty
2008	\$3,710,932	\$530,133
2009	\$6,326,582	\$632,658
3-year average	\$3,345,838	\$387,597

11. Percentage Full-Time Students

2007-2008 = 100%
2008-2009 = 96%

2009-2010 = 94.6%

12. Number of Core Faculty

2007-2008 = 4.0

2008-2009 = 7.0

2009-2010 = 9.0

13. Faculty Teaching Load

MSEN Faculty Teaching Load: **FALL 2008**

	MSEN
Total # semester credit hours Fall 2008	426
Total semester credit hours ÷ number core faculty: F08	60.9
<hr/>	
Total # semester credit hours F08, Sp09, Su09	1097
Total semester credit hours ÷ number core faculty: F08, Sp09, Su09	78.4

MSEN Faculty Teaching Load: **SPRING 2009**

	MSEN
Total # semester credit hours Spr 2009	591
Total semester credit hours ÷ number core faculty Sp09	84.4
<hr/>	
Total # semester credit hours F08, Sp09, Su09	1097
Total semester credit hours ÷ number core faculty: F08, Sp09, Su09	78.4

MSEN Faculty Teaching Load: **FALL 2009**

	MSEN
Total # semester credit hours Fall 2009	618
Total semester credit hours ÷ number core faculty F09	77.3
Total # semester credit hours F09, Sp10, Su10	1642
Total semester credit hours ÷ number core faculty: F09, Sp10, Su10	91.2

MSEN Faculty Teaching Load: **SPRING 2010**

	MSEN
Total # semester credit hours Spr 2010	690
Total semester credit hours ÷ number core faculty Sp10	69.0
Total # semester credit hours F09, Sp10, Su10	1642
Total semester credit hours ÷ number core faculty: F09, Sp10, Su10	91.2

14. Faculty Diversity (for the last 3 academic years)

	2007-2008	2008-2009	2009-2010
Male	4	7	8
Female	0	0	1
Asian	2	3	3
White	2	4	6
Hispanic	0	0	0
Other	0	0	0

15. Student Diversity (average for the last 3 academic years)

	2007-2008	2008-2009	2009-2010
Male	10.6	18.6	29.6
Female	3.6	7.6	10.6
Asian	6.6	10.3	18
Black	1	1.6	2.6
Hispanic	2	4	8
White	4.6	10.3	11.6
Other			

16. Date of Last External Review:

This department is two years old and has not been externally reviewed.

17. External Program Accreditation

In the United States, the engineering accreditation agency, ABET, does not accredit engineering doctoral programs. All of our current Bachelor's programs in engineering and computer science are ABET-accredited. The Jonsson School's doctoral programs were reviewed recently as part of the successful reaffirmation of UTD's accreditation by the cognizant regional accrediting agency, the Southern Association of Colleges and Schools.

18. Student Publications/Presentations (Few students publish or present independently; they primarily do this activity in collaboration with their mentoring professors)