

2013 UMD COLLEGE PROFILE: A. JAMES CLARK SCHOOL OF ENGINEERING

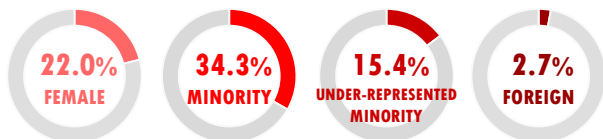
UNDERGRADS: 3,888 GRAD STUDENTS: 1,943 T/TK FACULTY: 198 STAFF: 237

FALL 2013 STUDENT ENROLLMENTS

UNDERGRADUATES:

Department	Count	% of College	% of University
A. James Clark School of Engineering	190	4.9%	0.7%
Aerospace Engineering	403	10.4%	1.5%
Chemical & Biomolecular Engineering	315	8.1%	1.2%
Civil & Environmental Engineering	443	11.4%	1.7%
Electrical & Computer Engineering	856	22.0%	3.2%
Fire Protection Engineering	104	2.7%	0.4%
Fischell Department of Bioengineering	413	10.6%	1.5%
Materials Science & Engineering	113	2.9%	0.4%
Mechanical Engineering	1,051	27.0%	3.9%
TOTAL	3,888	100.0%	14.6%

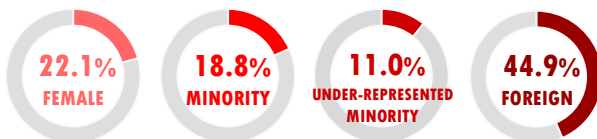
Race/Ethnicity	Female	Male	TOTAL
White:U.S.	505	1,827	2,332
Black or African American:U.S.	63	196	259
Asian:U.S.	162	585	747
American Indian or Alaska Native:U.S.	1	1	2
Native Hawaiian or Other Pacific Islander:U.S.	1	2	3
Hispanic:U.S.	46	160	206
Unknown:U.S.	23	85	108
Two or More:U.S.	34	93	127
Foreign	21	83	104
TOTAL	856	3,032	3,888



GRADUATE STUDENTS:

Department	Count	% of College	% of University
Aerospace Engineering	169	8.7%	1.6%
Chemical & Biomolecular Engineering	61	3.1%	0.6%
Civil & Environmental Engineering	205	10.6%	1.9%
Electrical & Computer Engineering	516	26.6%	4.9%
Fire Protection Engineering	29	1.5%	0.3%
Fischell Department of Bioengineering	71	3.7%	0.7%
Institute for Systems Research	29	1.5%	0.3%
Materials Science & Engineering	72	3.7%	0.7%
Mechanical Engineering	298	15.3%	2.8%
Office of Advanced Engr Education	493	25.4%	4.6%
TOTAL	1,943	100.0%	18.3%

Race/Ethnicity	Female	Male	TOTAL
White:U.S.	125	531	656
Black or African American:U.S.	21	87	108
Asian:U.S.	29	123	152
American Indian or Alaska Native:U.S.		2	2
Native Hawaiian or Other Pacific Islander:U.S.		1	1
Hispanic:U.S.	25	55	80
Unknown:U.S.	8	41	49
Two or More:U.S.	7	15	22
Foreign	214	659	873
TOTAL	429	1,514	1,943



*"Minority" includes: Asian, Hispanic, Black or African American, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, and Two or More. *Under-represented minority" includes all of the preceding except Asian.

706
NEW FRESHMEN

498
208

SAT SCORES:	MATH	CRITICAL READING	COMBINED MATH + READING
25 TH PERCENTILE	700	620	1,330
75 TH PERCENTILE	770	710	1,460

AVERAGE HIGH SCHOOL WEIGHTED GPA: 4.30

93% ENTERED UMD WITH COLLEGE CREDIT.

AVERAGE NO. OF CREDITS TRANSFERRED: 24.3

EMPLOYEES

OFFICIAL EMPLOYEES:

	Female	Male	TOTAL
Faculty	83	482	565
Tenure/Tenure-Track (T/TK)	28	170	198
Neither Tenured nor On-Track	55	312	367
Staff	139	98	237
Graduate Assistants	164	554	718
Research Assistants	120	420	540
Teaching Assistants	44	134	178

Based on Primary Appointment. Affiliates are not included.

ENGR STUDENT-FACULTY RATIO: 23:1

FACULTY HIGHLIGHTS:

- 19** are National Academy of Engineering members (includes affiliate faculty).
- 8** are recipients of Presidential Early Career Award for Scientists and Engineers
- 54** are recipients of National Science Foundation CAREER awards
- 100+** are fellows of engineering professional societies
- 30** are UMD "Invention of the Year" Award winners
- 18** are Distinguished Scholar Teacher (DST) award winners
- 6** are Distinguished University Professors (DUP)
- 2** is a USM Regents Professor

FY 2013 DEGREES: BACHELORS: 832 MASTERS: 510 DOCTORATE: 130

RETENTION & COMPLETIONS

DEGREES AWARDED by DEPARTMENT:

	Department	Degrees Awarded	% of College	% of University
BACHELORS	Aerospace Engineering	95	11.4%	1.3%
	Chemical & Biomolecular Engineering	60	7.2%	0.8%
	Civil & Environmental Engr	124	14.9%	1.7%
	Electrical & Computer Engineering	170	20.4%	2.4%
	Fire Protection Engineering	35	4.2%	0.5%
	Fischell Department of Bioengineering	74	8.9%	1.0%
	Materials Science & Engineering	24	2.9%	0.3%
	Mechanical Engineering	250	30.0%	3.5%
	TOTAL	832	100.0%	11.6%
MASTERS	Aerospace Engineering	44	8.6%	1.6%
	Chemical & Biomolecular Engineering	3	0.6%	0.1%
	Civil & Environmental Engr	43	8.4%	1.6%
	Electrical & Computer Engineering	185	36.3%	6.9%
	Fire Protection Engineering	11	2.2%	0.4%
	Institute for Systems Research	6	1.2%	0.2%
	Materials Science & Engineering	3	0.6%	0.1%
	Mechanical Engineering	52	10.2%	1.9%
	TOTAL	510	100.0%	19.1%
DOCTORATE	Aerospace Engineering	13	10.0%	1.9%
	Chemical & Biomolecular Engineering	7	5.4%	1.0%
	Civil & Environmental Engr	19	14.6%	2.8%
	Electrical & Computer Engineering	30	23.1%	4.4%
	Fischell Department of Bioengineering	7	5.4%	1.0%
	Materials Science & Engineering	9	6.9%	1.3%
	TOTAL	130	100.0%	19.0%

UG RETENTION/GRADUATION RATES:

1-YEAR RETENTION RATE: 96.2%

- Retained in ENGR: 90.2%
- Retained elsewhere: 6.0%

4-YEAR GRADUATION RATE: 69.0%

- Graduated in ENGR: 59.6%
- Graduated elsewhere: 9.4%

6-YEAR GRADUATION RATE: 84.4%

- Graduated in ENGR: 65.7%
- Graduated elsewhere: 18.6%

1-year retention rate is based upon full time, degree-seeking new freshmen entering in Fall 2012. 4-year and 6-year graduation rates are based upon full time, degree-seeking new freshmen entering in Fall 2009 and Fall 2007 respectively.

DEGREES AWARDED BY GENDER:

BACHELORS



MASTERS



DOCTORATES



DOCTORATES AWARDED PER T/TK FACULTY: 0.66

Click on any of the spotlights below to get more information. Additional news items can also be found in the News & Events section of the www.eng.umd.edu website.

ENGR SPOTLIGHT

MARYLAND TERRAPIN HACKERS WIN TOP HONORS

The University of Maryland's Terrapin Hackers team was named champion of the Fall 2013 Hackathon Season by Major League Hacking (MLH) based on merit and attendance at five MLH hackathons, where students collaborate to innovate software, hardware, apps, or working prototypes of a product. Terrapin Hackers topped 110 schools in the U.S. and around the globe, securing the top spot on MLH's list of "best schools for hackers."

CLARK SCHOOL TEAM PLACES FIRST IN EMISSIONS IN WOOD STOVE DECATHLON

Team Mulciber from the University of Maryland competed as one of twelve finalists in the inaugural Alliance for Green Heat Wood Stove Decathlon in 2013. They were the only university team to compete in the finals and went up against teams from six different countries. Team Mulciber won first place in the "Particulate Matter Emissions" category, and their wood stove design has been featured by Popular Mechanics and National Geographic.

CYBERSECURITY HONORS PROGRAM

The University of Maryland and Northrop Grumman launched a landmark honors program in 2013 called the Advanced Cybersecurity Experience for Students (ACES), designed to educate a new generation of advanced cybersecurity professionals.

GAMERA II – HUMAN-POWERED HELICOPTER

The 97-second flight of the Gamera II on September 25, 2013 is a new world record for human-powered helicopter flight duration. Gamera II was designed, built and piloted by students at the A. James Clark School of Engineering.

TWO UMD FINALIST TEAMS CHOSEN FOR NASA X-HAB CHALLENGE 2014

NASA chose two teams from the University of Maryland to participate in the 2014 eXploration-Habitat (X-Hab) Academic Innovation Challenge, where students research, design, develop and produce a subsystem prototype that enables habitation-related functionality for space exploration missions. Only seven teams were selected nationally. The University of Maryland was the only university to have two teams selected for the challenge.

SOLAR DECATHLON

University of Maryland's WaterShed took first place in the 2011 Solar Decathlon. The 800 sq.ft. solar home had been designed and built over the preceding two years by a team of students, faculty, and staff.