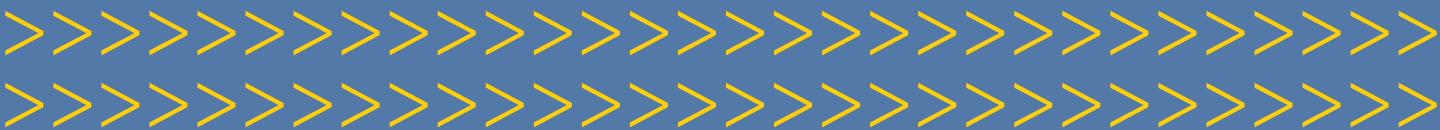


2013
2014

ANNUAL REPORT

Engineering Career Resource Center



Welcome



I am pleased to share with you the 2013-2014 issue of the Engineering Career Resource Center (ECRC) Annual Report. The report contains information on the post-graduation activities of December 2012 – August 2013 graduates and hiring activity for the College of Engineering Internship and Cooperative Education Program (Co-op).

This year showed salaries and hiring were solid as Michigan Engineers were highly sought by numerous employers. Bachelor's and Master's level students reported an increase in accepting full-time employment over graduate school. Many majors saw average salary increases over last year's salaries.

The ECRC also provided a range of services to graduate and undergraduate students and alumni of the College. As always, our goal is to assist students in gaining valuable professional experiences that will help them make a successful transition from school to career. We focused on resume writing, interviewing skills, mock interviews and job search strategies. We look forward to another exciting year.

Sincerely,

A handwritten signature in black ink that reads "Kerri Boivin". The script is fluid and cursive.

Kerri Boivin
Director, Engineering Career Resource Center
College of Engineering
University of Michigan

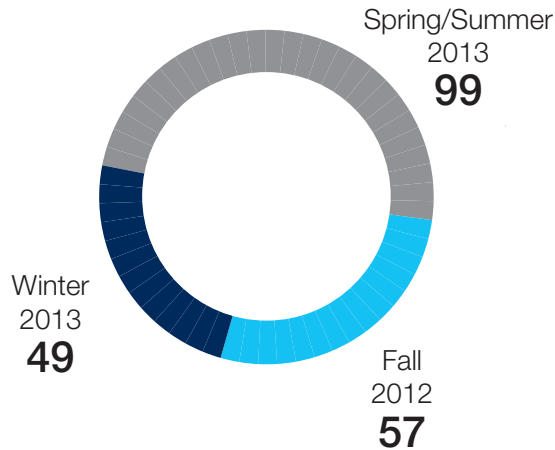


Cooperative Education

The non-credit Cooperative Education Program (Co-op) enables students to alternate school and work terms and apply their skills to the work setting. In addition to providing a source of valuable talent, co-op students offer employers an opportunity to identify qualified candidates prior to graduation. Ideally, co-op is eight-months of hands-on engineering experience, occurring either May through December or January through August.

Registered Co-op Students

Total
205



Co-op Salaries and Hires

Program†	Hires††	Median Monthly Salary	Average Monthly Salary
Aerospace Engineering	9	\$2,602	\$2,629
Biomedical Engineering	4	\$3,141	\$3,120
Chemical Engineering	17	\$3,566	\$3,312
Civil Engineering	5	\$1,968	\$2,166
Computer Engineering	17	\$4,996	\$5,027
Computer Science	40	\$5,368	\$5,705
Electrical Engineering	17	\$3,723	\$3,467
Engineering (undeclared)	3	\$2,340	\$2,167
Industrial & Operations Engineering	38	\$3,414	\$3,306
Materials Science & Engineering	5	\$3,129	\$2,990
Mechanical Engineering	31	\$3,351	\$3,337

† Programs with only one submission were omitted.

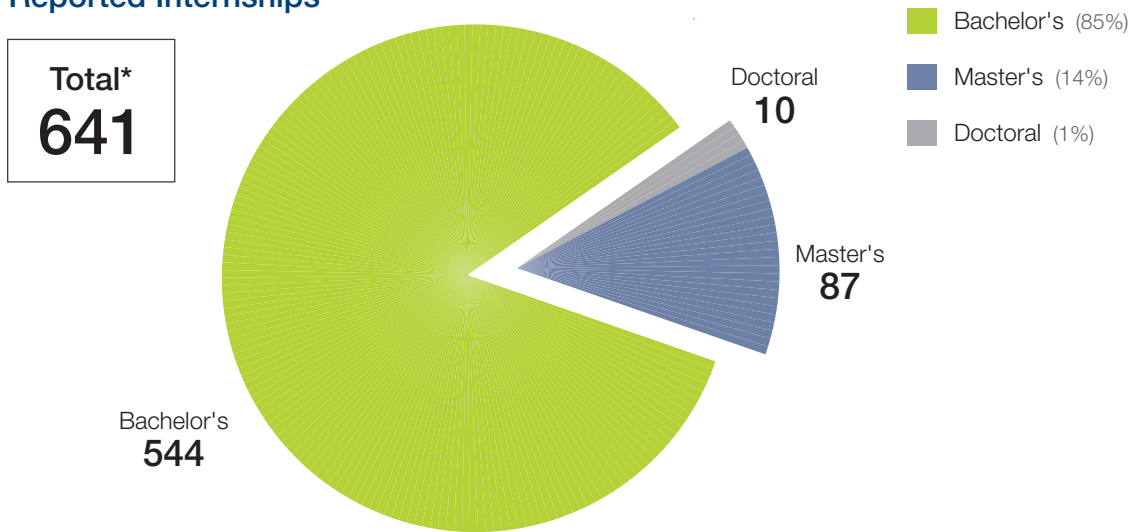
†† 12 students reported hires, but did not provide salary information. Their data was omitted.



Internships

Non-credit internships are popular amongst U-M engineering and computer science students. Students have the opportunity to gain valuable work experience in an engineering environment. The assignments typically occur May through August and may be in locations all over the world. Many students at the College participate in internships. **The internships in this publication only include those that were reported to the ECRC.**

Reported Internships*



* Data only reflects internships reported to the ECRC.



Bachelor's Internship Salaries and Hires

Program [†]	Hires ^{††}	Median Monthly Salary	Average Monthly Salary
Aerospace Engineering	23	\$3,380	\$3,429
Biomedical Engineering	11	\$3,949	\$3,785
Chemical Engineering	45	\$3,692	\$3,982
Civil Engineering	14	\$3,033	\$3,583
Computer Engineering	38	\$4,193	\$4,607
Computer Science	99	\$5,200	\$5,101
Electrical Engineering	36	\$3,553	\$3,702
Engineering (undeclared)	16	\$2,600	\$2,710
Industrial & Operations Engineering	70	\$3,484	\$3,645
Materials Science & Engineering	16	\$3,286	\$3,600
Mechanical Engineering	88	\$3,315	\$3,372
Naval Architecture & Marine Engineering	9	\$3,120	\$3,709
Nuclear Engineering & Radiological Sciences	3	\$3,033	\$2,744
Total	468		

[†] Programs with only one submission were omitted.

^{††} 91 students from the different degree levels reported hires, but did not provide salary information. Their data was omitted.



Master's Internship Salaries and Hires

Program [†]	Hires ^{††}	Median Monthly Salary	Average Monthly Salary
Aerospace Engineering	2	-	\$5,720
Automotive Engineering	5	\$4,604	\$4,097
Biomedical Engineering	4	\$3,813	\$3,813
Computer Science & Engineering	10	\$6,067	\$6,158
Electrical Engineering	10	\$5,841	\$5,936
Electrical Engineering: Systems	11	\$5,547	\$5,580
Energy Systems Engineering	2	-	\$3,207
Financial Engineering	4	\$5,933	\$5,717
Industrial & Operations Engineering	7	\$4,680	\$4,668
Manufacturing Engineering	3	\$6,240	\$5,330
Mechanical Engineering	11	\$4,604	\$4,184
Naval Architecture & Marine Engineering	2	-	\$4,369
Space Engineering	2	-	\$4,203
Total	73		

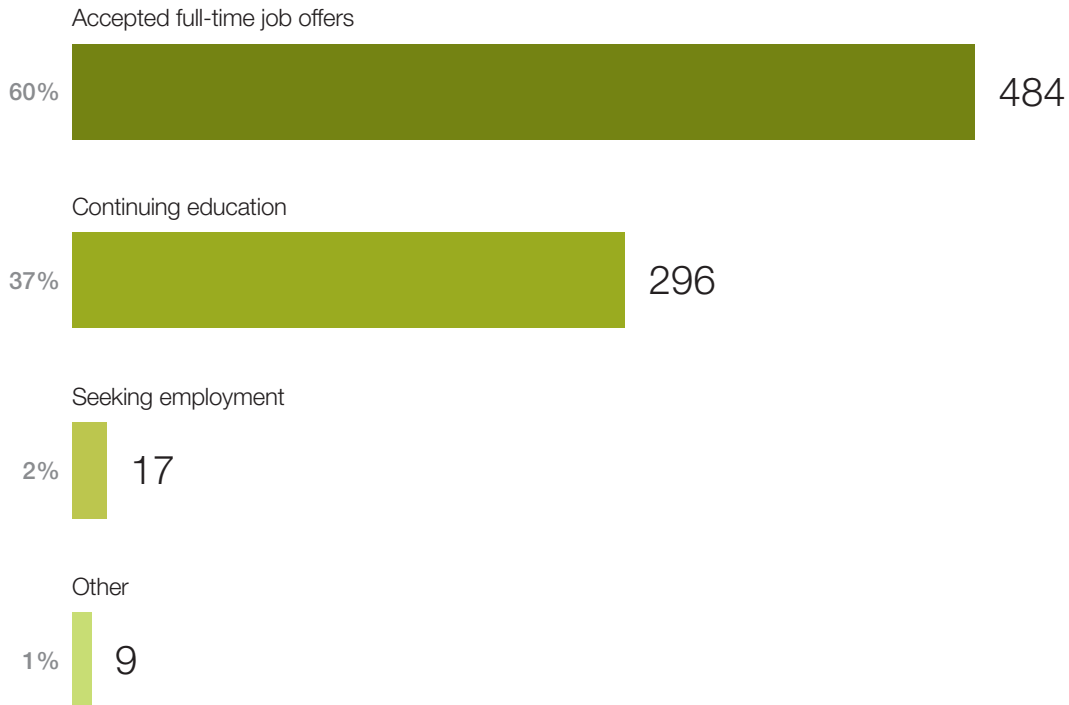
[†] Programs with only one submission were omitted.

^{††} 91 students from the different degree levels reported hires, but did not provide salary information. Their data was omitted.



Bachelor's Graduates

Post-graduation Plans



Note: Out of graduating class of 1,348, 806 responses were collected from December 2012 to September 30, 2013. Response rate = 60%.



Job Acceptances by Program

Data reflects total respondents indicating salary

	Respondents*	Base Salary Information		
		Median	Average	Range
Aerospace Engineering	19	\$63,000	\$62,136	\$39,520 - 80,000
Biomedical Engineering	9	\$61,000	\$59,844	\$28,000 - 90,000
Chemical Engineering	52	\$68,000	\$68,813	\$35,000 - 100,000
Civil Engineering	17	\$53,000	\$54,553	\$36,400 - 89,000
Computer Engineering	21	\$70,000	\$72,524	\$50,000 - 105,000
Computer Science	91	\$80,000	\$81,500	\$42,000 - 110,004
Electrical Engineering	28	\$65,000	\$66,299	\$40,000 - 87,000
Industrial & Operations Engineering	77	\$63,500	\$62,836	\$40,000 - 83,200
Materials Science & Engineering	13	\$62,400	\$62,523	\$50,000 - 71,400
Mechanical Engineering	78	\$63,780	\$63,997	\$42,000 - 95,000
Naval Architecture & Marine Engineering	4	\$62,000	\$62,930	\$57,720 - 70,000

Total **409**

* Categories with two or less respondents were omitted.



Job Acceptances by Region

Data reflects total respondents indicating salary and location

	States	Respondents	%	Base Salary Information		
				Median	Average	Range
Midwest	IA, IL, IN, KS, MI, MN, MO, NE, ND, OH, SD, WI	206	55%	\$64,000	\$63,287	\$28,000 - 100,000
West	AK, CA, HI, ID, MT, NV, OR, UT, WA, WY	65	17%	\$82,000	\$81,571	\$39,520 - 110,004
Southwest	AZ, CO, NM, OK, TX	37	10%	\$67,500	\$68,769	\$40,000 - 100,000
Northeast	CT, MA, ME, NH, NJ, NY, RI, VT	31	8%	\$70,000	\$73,506	\$43,000 - 110,000
South	AL, FL, GA, KY, LA, MS, NC, SC, TN	20	5%	\$66,000	\$65,515	\$43,000 - 90,000
Mid-Atlantic	DC, DE, MD, PA, VA, WV	14	4%	\$68,000	\$65,504	\$43,000 - 89,500
International		3	1%	\$75,000	\$66,667	\$50,000 - 75,000
Total		376				

Job Acceptances by State (Top 7)

Data reflects total respondents indicating location



1	Michigan	148	35%
2	California	38	9%
2	Illinois	38	9%
3	Washington	31	7%
4	Texas	30	7%
5	New York	19	5%
6	Wisconsin	15	4%
7	Ohio	13	3%
	<i>Other locations</i>	90	21%
	Total	422	



Job Acceptances by Sector

Data reflects total respondents indicating salary and employer

	Respondents*	%	Base Salary Information		
			Median	Average	Range
Aerospace & Defense	17	4%	\$65,750	\$66,539	\$43,000 - 81,000
Automotive & Transport Equipment	55	14%	\$63,780	\$63,527	\$51,000 - 83,200
Chemicals	11	3%	\$68,000	\$68,391	\$63,000 - 72,800
Computer Hardware	6	2%	\$69,500	\$69,417	\$67,500 - 72,000
Computer Software & Services	100	25%	\$78,000	\$78,610	\$42,000 - 110,000
Conglomerates	6	2%	\$66,500	\$69,500	\$66,000 - 85,000
Consulting	38	10%	\$68,500	\$67,907	\$55,000 - 80,000
Consumer Products	15	4%	\$68,000	\$68,875	\$62,000 - 85,000
Electronics	4	1%	\$67,000	\$66,500	\$65,000 - 67,000
Energy	20	5%	\$80,000	\$78,850	\$62,000 - 100,000
Energy & Utilities	5	1%	\$60,000	\$57,810	\$42,000 - 67,548
Engineering Services	29	7%	\$63,000	\$63,084	\$36,400 - 110,004
Environmental	3	1%	\$40,000	\$60,000	\$35,000 - 105,000
Financial Services	17	4%	\$68,000	\$70,176	\$45,000 - 100,000
Government	15	4%	\$50,000	\$52,256	\$40,000 - 95,000
Healthcare Products & Services	9	2%	\$60,000	\$59,333	\$45,000 - 75,000
Manufacturing	24	6%	\$60,000	\$58,181	\$39,520 - 70,000
Materials & Construction	9	2%	\$53,000	\$55,313	\$42,000 - 65,000
Pharmaceutical	4	1%	\$66,500	\$65,250	\$60,000 - 68,000
Technology	5	1%	\$60,000	\$62,200	\$48,000 - 80,000
Transportation	6	2%	\$61,900	\$61,300	\$53,000 - 68,000

Total

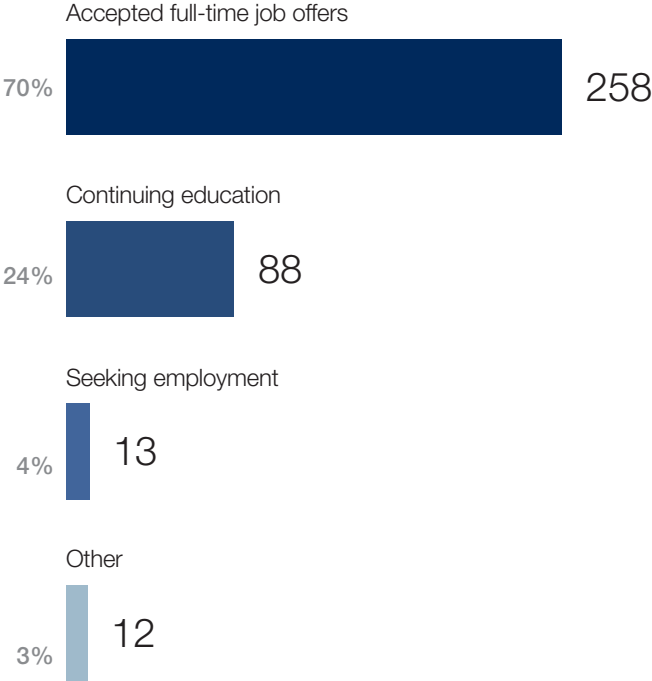
398

* Categories with two or less respondents were omitted.



Master's Graduates

Post-graduation Plans



Note: Out of graduating class of 1,115, 371 responses were collected from December 2012 to September 30, 2013. Response rate = 33%.



Job Acceptances by Program

Data reflects total respondents indicating salary

	Respondents*	Base Salary Information		
		Median	Average	Range
Aerospace Engineering	13	\$70,000	\$70,192	\$54,000 - 79,000
Automotive Engineering	3	\$75,000	\$79,000	\$65,000 - 97,000
Biomedical Engineering	9	\$63,000	\$60,111	\$30,000 - 80,000
Civil Engineering	6	\$61,000	\$61,347	\$50,000 - 80,000
Computer Science & Engineering	21	\$95,000	\$97,057	\$65,000 - 116,000
Electrical Engineering	18	\$89,000	\$84,544	\$48,000 - 103,000
Electrical Engineering: Systems	33	\$80,000	\$82,186	\$57,200 - 107,000
Energy Systems Engineering	3	\$75,000	\$90,000	\$75,000 - 120,000
Financial Engineering	12	\$77,500	\$78,750	\$55,000 - 100,000
Industrial & Operations Engineering	20	\$72,000	\$72,315	\$42,000 - 87,000
Manufacturing Engineering	3	\$88,000	\$80,000	\$60,000 - 92,000
Materials Science & Engineering	3	\$72,800	\$82,600	\$70,000 - 105,000
Mechanical Engineering	29	\$74,000	\$74,332	\$52,500 - 93,500
Naval Architecture & Marine Engineering	4	\$86,250	\$80,875	\$60,000 - 91,000
Space Engineering	4	\$76,636	\$77,318	\$74,000 - 82,000

Total **181**

* Categories with two or less respondents were omitted.



Job Acceptances by Region

Data reflects total respondents indicating salary and location

	Respondents	%	Base Salary Information			
			Median	Average	Range	
Midwest	IA, IL, IN, KS, MI, MN, MO, NE, ND, OH, SD, WI	73	43%	\$70,000	\$69,426	\$30,000 - 120,000
West	AK, CA, HI, ID, MT, NV, OR, UT, WA, WY	52	30%	\$90,000	\$89,554	\$42,000 - 116,000
Northeast	CT, MA, ME, NH, NJ, NY, RI, VT	19	11%	\$78,000	\$78,868	\$48,000 - 100,000
Southwest	AZ, CO, NM, OK, TX	17	10%	\$80,000	\$81,165	\$60,000 - 105,000
South	AL, FL, GA, KY, LA, MS, NC, SC, TN	4	2%	\$73,000	\$72,750	\$50,000 - 95,000
Mid-Atlantic	DC, DE, MD, PA, VA, WV	4	2%	\$63,000	\$67,500	\$54,000 - 90,000
International		2	1%	-	\$54,000	\$48,000 - 60,000

Total **171**

Job Acceptances by State (Top 7)

Data reflects total respondents indicating location



1	Michigan	54	27%
2	California	40	20%
3	Washington	19	9%
4	Massachusetts	12	6%
5	Texas	11	5%
6	Illinois	10	5%
7	Indiana	8	4%
	<i>Other locations</i>	49	24%

Total **203**



Job Acceptances by Sector

Data reflects total respondents indicating salary and employer

	Respondents*	%	Base Salary Information		
			Median	Average	Range
Aerospace & Defense	18	10%	\$76,800	\$75,283	\$54,000 - 92,000
Automotive & Transport Equipment	23	13%	\$74,000	\$73,514	\$42,000 - 120,000
Computer Hardware	9	5%	\$82,000	\$85,367	\$72,000 - 107,000
Computer Software & Services	52	29%	\$89,000	\$87,346	\$59,000 - 116,000
Conglomerates	3	2%	\$75,000	\$76,333	\$74,000 - 80,000
Consulting	10	6%	\$67,500	\$65,108	\$48,000 - 84,000
Education/Academia	3	2%	\$30,000	\$39,067	\$30,000 - 57,200
Electronics	3	2%	\$95,000	\$90,000	\$80,000 - 95,000
Energy	9	5%	\$87,000	\$84,778	\$71,000 - 105,000
Engineering Services	14	8%	\$73,250	\$74,893	\$60,000 - 107,000
Financial Services	7	4%	\$75,000	\$73,714	\$55,000 - 90,000
Government	5	3%	\$63,000	\$64,754	\$43,500 - 90,000
Manufacturing	14	8%	\$71,000	\$70,000	\$52,500 - 92,000
Telecommunications	9	5%	\$90,000	\$90,216	\$89,940 - 92,000
Total	179				

* Categories with two or less respondents were omitted.

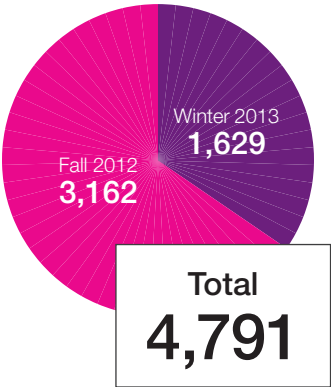


Recruiting Season

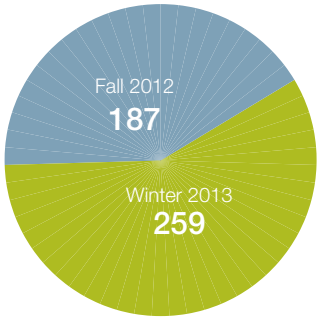
ENGenius.Jobs Postings

Term	Jobs Posted
Summer/Fall 2012	3,736
Winter/Spring 2013	3,886
Total	7,622

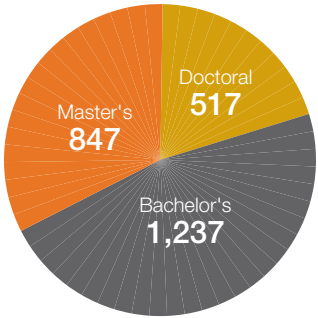
On-campus Interviews



Organizations Conducting On-campus Interviews



Organizations Requesting Specific Degree Levels



Undergraduate Majors Most Requested by Organizations

Major	Requests*	% of Jobs
Computer Science	3,547	60%
Computer Engineering	3,337	57%
Electrical Engineering	3,081	53%
Mechanical Engineering	2,888	49%
Industrial & Operations Engineering	2,195	37%
Chemical Engineering	1,812	31%

* 5,868 job postings sought undergraduate degree candidates from July 2012 to June 2013.



Top Hiring Companies (2012-2013)

	Full-time	Intern	Co-op	Total Hires
Amazon	18	16	17	51
Microsoft Corporation	32	13	4	49
Ford Motor Company	30	16	2	48
General Electric	11	17	7	35
Boeing Company, The	15	12	-	27
Chrysler, LLC	16	10	-	26
Intel Corporation	15	8	2	25
University of Michigan	13	11	1	25
Qualcomm, Inc.	11	8	5	24
Cisco Systems	14	7	2	23
Cummins, Inc.	6	12	3	21
Toyota (TEMA)	4	5	12	21
General Motors	14	6	-	20
Google	11	8	-	19
JP Morgan Chase	7	10	1	18
Shell	8	10	-	18
Unilever	2	6	9	17
Bosch	2	11	1	14
NASA	1	5	8	14

Complete list available at career.engine.umich.edu/companylist.pdf





College of Engineering

Engineering Career Resource Center
230 Chrysler Center
2121 Bonisteel Boulevard
Ann Arbor, Michigan 48109-2092

(734) 647-7160
ecrc-info@umich.edu
career.engin.umich.edu

This publication includes post-graduate
and salary data reported as of September 30, 2013.

Regents of the University of Michigan: Mark J. Bernstein,
Julia Donovan Darlow, Laurence B. Deitch, Shauna Ryder Diggs,
Denise Ilitch, Andrea Fischer Newman, Andrew C. Richner,
Katherine E. White, Mary Sue Coleman, *ex officio*.

The University of Michigan, as an equal opportunity/affirmative action employer, complies with all applicable federal and state laws regarding nondiscrimination and affirmative action. The University of Michigan is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, national origin, age, marital status, sex, sexual orientation, gender identity, gender expression, disability, religion, height, weight, or veteran status in employment, educational programs and activities, and admissions. Inquiries or complaints may be addressed to the Senior Director for Institutional Equity, and Title IX/Section 504/ADA Coordinator, Office of Institutional Equity, 2072 Administrative Services Building, Ann Arbor, Michigan 48109-1432, 734-763-0235, TTY 734-647-1388. For other University of Michigan information call 734-764-1817.

© 2013 Regents of the University of Michigan

