

Sponsored Program Summary
2nd Quarter FY16
February, 2016

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Vice President for Research

Michigan Tech

Outline

- Sponsored Awards, 2nd Quarter FY16
- Research Expenditures, 2nd Quarter FY16
- Intellectual Property/Commercialization, 2nd Quarter FY16
- Corporate Sponsorship, 2nd Quarter FY16
- Corporate Sponsorship Discussion

Sponsored Awards, 1st Quarter FY16

Sponsor	Proposals Submitted		Awards Received		Awards Received (\$)		Variance \$	Variance %
	FY '16 as of 9/30	FY '15 as of 9/30	FY '16 as of 9/30	FY '15 as of 9/30	FY '16 as of 9/30	FY '15 as of 9/30		
NASA	2	7	4	12	339,117	1,116,559	(777,442)	-69.6%
National Science Foundation	43	49	31	36	4,121,183	7,117,138	(2,995,955)	-42.1%
US Department of Agriculture	25	31	10	34	989,427	1,151,674	(162,247)	-14.1%
US Department of Defense	17	11	17	17	2,657,682	4,632,997	(1,975,315)	-42.6%
US Department of Education	1	-	1	-	92,155	-	92,155	-
US Department of Energy	11	5	9	5	540,689	458,214	82,475	18.0%
US Department of HHS	3	1	4	7	1,015,049	997,712	17,337	1.7%
US Department of Transportation	5	7	4	3	273,535	178,225	95,310	53.5%
Other Federal Agencies*	20	8	8	8	552,301	484,997	67,304	13.9%
Federal Agency Total	127	119	88	122	10,581,138	16,137,516	(5,556,378)	-34.4%
State of Michigan	11	13	3	12	459,673	1,475,485	(1,015,812)	-68.8%
Industrial	68	61	50	29	1,454,598	2,846,677	(1,392,079)	-48.9%
Foreign	7	4	5	3	184,516	161,719	22,797	14.1%
All Other Sponsors	15	20	7	11	189,152	230,575	(41,423)	-18.0%
Subtotal	228	217	153	177	12,869,077	20,851,972	(7,982,895)	-38.3%
Gifts**	-	-	77	67	637,343	414,161	223,182	53.9%
Crowd Funding	-	-	7	9	6,378	3,625	2,753	75.9%
Grand Total	228	217	237	253	13,512,798	21,269,758	(7,756,960)	-36.5%

* US Dept.. of the Interior, US Dept.. of Commerce, National Endowments for the Arts & Humanities, US Environmental Protection Agency, US Dept.. of Labor

**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.

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Sponsored Awards, 2nd Quarter FY16

Sponsor	Proposals Submitted		Awards Received		Awards Received (\$)		Variance \$	Variance %
	FY '16 as of 12/31	FY '15 as of 12/31	FY '16 as of 12/31	FY '15 as of 12/31	FY '16 as of 12/31	FY '15 as of 12/31		
NASA	40	45	8	17	597,282	1,419,298	-822,016	-57.9%
National Science Foundation	115	125	37	47	4,939,588	7,622,181	-2,682,593	-35.2%
US Department of Agriculture	29	34	12	38	1,047,827	1,431,748	-383,921	-26.8%
US Department of Defense	38	32	26	25	3,853,204	6,417,041	-2,563,837	-40.0%
US Department of Education	2	-	1	-	92,155	-	92,155	-
US Department of Energy	16	18	12	7	1,290,949	529,431	761,518	143.8%
US Department of HHS	11	17	5	8	1,108,831	1,456,632	-347,801	-23.9%
US Department of Transportation	8	17	9	16	778,220	2,347,315	-1,569,095	-66.8%
Other Federal Agencies*	29	19	15	13	752,393	712,375	40,018	5.6%
Federal Agency Total	288	307	125	171	14,460,449	21,936,021	-7,475,572	-34.1%
State of Michigan	24	28	13	22	1,892,620	2,448,968	-556,348	-22.7%
Industrial	100	116	106	99	4,557,476	5,841,925	-1,284,449	-22.0%
Foreign	11	17	8	5	517,087	227,719	289,368	127.1%
All Other Sponsors	31	33	17	18	1,425,758	468,109	957,649	204.6%
Subtotal	454	501	269	315	22,853,390	30,922,742	-8,069,352	-26.1%
Gifts**	-	-	180	180	6,033,755	5,281,271	752,484	14.2%
Crowd Funding	-	-	8	12	6,478	11,556	-5,072	-43.9%
Grand Total	454	501	457	507	\$28,893,623	\$36,215,563	-\$7,321,940	-20.2%

* US Dept.. of the Interior, US Dept. of Commerce, National Endowments for the Arts & Humanities, US Environmental Protection Agency, US Dept. of Labor

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Research Expenditures, 1st Quarter FY16

College/School/Division	FY2016	FY2015	Variance	%
Administration*	2,285,243	2,072,283	212,960	10.3%
College of Engineering	4,679,646	5,127,863	(448,217)	-8.7%
College of Science & Arts	2,762,858	2,611,090	151,768	5.8%
Pavlis Honors College	49,352	41,897	7,455	17.8%
Keweenaw Research Center (KRC)	1,392,772	1,171,255	221,517	18.9%
Michigan Tech Research Institute (MTRI)	1,956,154	1,992,180	(36,026)	-1.8%
School of Business & Economics	173,151	183,348	(10,197)	-5.6%
School of Forest Resources & Environmental Science	956,705	1,116,000	(159,295)	-14.3%
School of Technology	132,988	95,095	37,893	39.8%
Total	14,388,869	14,411,011	(22,142)	-0.2%

*Includes the Vice Presidents, Provost, CIO, Exec Director Financial Services & Operations and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.



Research Expenditures, 2nd Quarter FY16

College/School/Division	FY2016	FY2015	Variance	%
Administration*	2,198,980	1,923,860	275,120	14.3%
College of Engineering	12,758,079	12,418,386	339,693	2.7%
College of Science & Arts	7,621,723	6,987,218	634,505	9.1%
Pavlis Honors College	113,267	144,933	(31,666)	-21.8%
Keweenaw Research Center (KRC)	3,100,967	2,725,446	375,521	13.8%
Michigan Tech Research Institute (MTRI)	4,394,103	4,807,238	(413,135)	-8.6%
School of Business & Economics	787,057	786,357	700	0.1%
School of Forest Resources & Environmental Science	2,347,146	2,638,009	(290,863)	-11.0%
School of Technology	280,835	224,155	56,680	25.3%
Total	33,602,157	32,655,602	946,555	2.9%
*Includes the Vice Presidents, Provost, CIO, Exec Director Financial Services & Operations and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.				



Intellectual Property, 2nd Quarter FY16

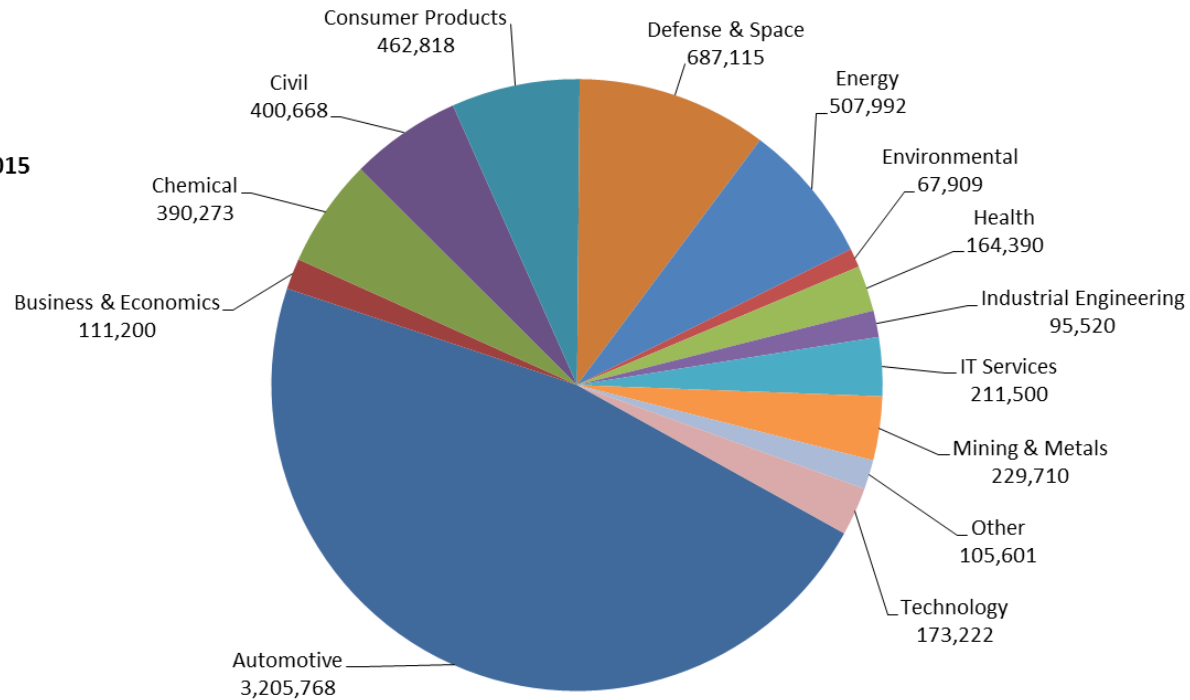
	FY16	FY15	+/-
Disclosures Received	10	15	- 33 %
Nondisclosure Agreements	55	55	0 %
Patents Filed or Issued	7	6	+ 17 %
License Agreements	6	6	0 %
Gross Royalties	\$ 131,629	\$ 116,354	+ 13 %

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Corporate Sponsorship, 2nd Quarter FY16

Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2016
2nd Quarter
Ended December 31, 2015

TOTAL: \$6,813,686



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Corporate Awards

- Bonneville Power Administration, Transformer Protection – Improved Methodologies and Engineering Tools (B. Mork, J. Burl, and J. Lukowski, ECE, \$ 150,000) – FPT/DOE
- Google, Inc., Verification of NUADC Performance (D. Fuhrman and S. Nooshabadi, ECE, \$ 100,000)
- Nostrum Energy LLC, Development of a High BMEP SI Engine and Determination of Combustion Knock Mitigation via Water Injection (J. Naber, MEEM, \$ 189,014)

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Corporate Awards

- FCA US LLC, Chrysler Test Support of the Winter of 2015-2016 (M. Osborne, KRC, \$ 529,056)
- Bendix Commercial Vehicle Systems LLC, Bendix Test Support for the Winter of 2015-2016 (M. Osborne, KRC, \$ 512,970)
- Yokohama Tire Co, Yokohama Tire Test Support for the Winter of 2015-2016 (M. Osborne, KRC, \$ 118,900)

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Corporate Awards

- Ariens Co, Ariens Test Support for the Winter of 2015-2016 (G. Gwaltney, KRC, \$ 243,000)
- Ford Motor Co, Continuation of Engine Ignition Studies (J. Naber, S-Y Lee, and M. Shahbakhti, MEEM, \$115,000)

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Corporate Combined Research Expenditures Plus Gifts, 2nd Qtr FY16

– FCA US LLC	\$ 660 k
– Bendix Corp	\$ 513 k
– Ford Motor Co	\$ 409 k
– Deere & Co	\$ 345 k
– Lonza Wood Protection	\$ 293 k
– Nostrum Energy LLC	\$ 252 k
– Ariens Co	\$ 243 k
– Michelin Americas R&D Corp	\$ 208 k
– -----	\$ 200 k
– General Motors Corp	\$ 182 k

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