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Year Ended
June 30, 2015

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MICHIGAN TECHNOLOGICAL UNIVERSITY

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INDEPENDENT AUDITORS' REPORT ON THE
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
REQUIRED BY OMB CIRCULAR A-133

November 13, 2015

To the Board of Trustees
Michigan Technological University
Houghton, Michigan

We have audited the financial statements of **Michigan Technological University** (the "University"), as of and for the year ended June 30, 2015, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated November 13, 2015, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the basic financial statements. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by OMB Circular A-133 and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditure of federal awards is fairly stated in all material respects in relation to the basic financial statements as a whole.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Student Financial Assistance Cluster				
U.S. Department of Education				
Federal Supplemental Educational Opportunity Grants	84.007	Direct	P007A132046	\$ 234,310
Federal Work-Study Program	84.033	Direct	P033A132046	284,527
Federal Perkins Loan Program	84.038	Direct	-n/a-	2,260,443
Federal Pell Grant Program	84.063	Direct	P063P130234	5,653,714
Federal Direct Student Loans	84.268	Direct	P268K130234	<u>28,981,697</u>
Total Student Financial Assistance Cluster				<u>37,414,691</u>
Research and Development Cluster				
U.S. Department of Agriculture				
No CFDA Number:				
USAGR-ESC-FFC-Emerals Ash Borer	10.unk	Direct	14-8130-0464-CA	4,359
USAGR-FFC-ESC-Climate Change Plan	10.unk	Direct	12-CR-11242306-131	94,845
USAGR-ESC-FFC-Nat'l Soil Carbon Net	10.unk	Direct	09-CR-11242306-086	147
USAGR-ESC-FFC-Marcell Exp Forest	10.unk	Direct	10-JV-11242307-067	63
Cooperative Management of Archaeolo	10.unk	Direct	10-CS-11091000-022	3,116
USAGR-ESC-FFC-Black Ash Wetlands	10.unk	Direct	11-CS-11090100-006	79,797
USAGR-ESC-FFC-Native Plant Prod Res	10.unk	Direct	11-JV-11221632-130	30,976
USAGR-ESC-FFC-Wood Stake Decomp.	10.unk	Direct	11-JV-11242301-081	5,254
USAGR-GIS Interface WEPP Watershed	10.unk	Direct	12-JV-11221634-175	3,452
USAGR-FFC-ESC-Pine Samples	10.unk	Direct	12-CR-11242313-106	508
USAGR-ESC-FFC-Environmental Change	10.unk	Direct	12-JV-11242306-105	168,526
USAGR-ESC-FFC-Tropical Ecosystems	10.unk	Direct	13-JV-11242306-044	169,035
USAGR-ESC-FFC-Carbon Rsch Management	10.unk	Direct	13-CR-11242306-065	17,443
USAGR-FlamMap Model Complement	10.unk	Direct	13-JV-11221634-135	3,869
USAGR-ESC-FFC-Forest Health Threats	10.unk	Direct	13-CS-11242306-069	24,958
USAGR-ESC-FFC-Puerto Rican Forest	10.unk	Direct	13-JV-11120101-033	34,543
USAGR-ESC-FFC-Trapping Success Yr1	10.unk	Direct	13-PA-11020000-060	34,962
USAGR-ESC-FFC-Wood Decomposition	10.unk	Direct	13-JV-11330140-120	5,555
USAGR-ESC-FFC-Biomass Removal	10.unk	Direct	14-JV-11221633-021	10,011
USAGR-ESC-FFC-Pile Burning on Wood	10.unk	Direct	14-JV-11221633-035	7,644
USAGR-Multi-Temporal Imagery	10.unk	Direct	14-CS-11090700-005	44,154
USAGR-ESC-FFC-Post-Fire Salvage Log	10.unk	Direct	14-JV-11221634-138	74,419
USAGR-ESC-FFC-Black Ash Wetlands	10.unk	Direct	14-JV-11242307-153	40,343
USAGR-ESC-FFC-Soil Heating Alter	10.unk	Direct	15-JV-11221633-036	15,000
USAGR-FFC-ESC-Properties of Ironwood	10.unk	Direct	12-JV-11111133-059	<u>1,418</u>
				<u>874,397</u>
Cooperative Forestry Research:				
USAGR-MS-FFC-FY13 Admin	10.202	Direct	2013-32100-06098 AMEND. NO.1	46,790
USAGR-MS-FFC-ADMIN FY 14	10.202	Direct	2014-32100-60698	166,391
USAGR-MS-FFC-FY15 Admin	10.202	Direct	2015-32100-06098, AMEND NO. 1	106,216
				<u>319,397</u>
Agricultural and Rural Economic Research				
Cooperative Agreements:				
NORTH-Contextualizing Food Decision	10.250	North Carolina State University	2014-1960-01	<u>850</u>
Agriculture and Food Research Initiative:				
USAGR-BRC-FFC Root Dev Populus	10.310	Direct	2009-65504-05767	8,690
USAGR-FFC-Overlapping Sense/Antisen	10.310	Direct	2012-67014-19445	24,549
USAGR-FFC-BRC-Lateral OrganBoundary	10.310	Direct	2012-67013-19389	173,255
USAGR-BRC-Rice Callus Culture	10.310	Direct	2014-67018-21767	70,557
UNIVE-CWS-Sustainable Water-Desert	10.310	University of Texas at El Paso	2015070041 / 2015-68007-23130	<u>3,741</u>
				<u>280,792</u>
Biomass Research and Development Initiative Competitive:				
USAGR-SFI-HRJ Fuel	10.312	Direct	59-3620-3-002	<u>85,997</u>
Wood Utilization Assistance:				
USDOW-APSRC-Low Lignin Woods	10.674	Direct	GRANT NUMBER: CW-4	<u>16,788</u>
Forest Health Protection:				
USAGR-ESC-FFC-Heterobasidion Root	10.680	Direct	14-DG-11420004-188	<u>17,918</u>
Total U.S. Department of Agriculture				<u>1,596,139</u>
U.S. Department of Commerce				
No CFDA Number:				
UNIVE-Great Lakes Remote Sensing	11.unk	University of Michigan	3003130551	98,995
LIMNO-GLOS DMAC 2014-2015	11.unk	LimnoTech Inc	DMAC-04 PRIME# NA11NOS0120041	7,889
USCOM-Underwater Radiometer Measure	11.unk	Direct	CONFIRMING ORDER #1503063	517
				<u>107,401</u>
Integrated Ocean Observing System:				
LIMNO-GLOS DMAC Add'l Funding	11.012	LimnoTech Inc	SUB DMAC-01; PRIME #NA10NOS012	5,766
UNIVE-GLRC-Alliance for Coastl Tech	11.012	University of Maryland	10810 075256840/NA11NOS0120037	91,758
				<u>97,524</u>

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Continued)				
U.S. Department of Commerce (Concluded)				
Sea Grant Support:				
UNIVE-CWS2-Torch Lake Assessment AOC	11.417	University of Michigan	3002230000 MSG #R/WQ-4	\$ 14,484
OHIOS-GLRC-Lake Superior Coastal	11.417	Ohio State Univ Research Foundation	SUB. 60045241, NA120AR4170113	22,841
				37,325
Coastal Zone Management Administration Awards:				
MIDEQ-Current Forecasting	11.419	Michigan Dept of Environmental Quality	14-RIP-002	39,269
REGEN-GLRC-Rip Currents Great Lakes	11.419	Regents of the University of Michigan	SUBCONTRACT NO. 3002561961	(22)
				39,247
Climate and Atmospheric Research:				
USCOM-CWS2-Mgmt Lower Colorado River	11.431	Direct	NA130AR4310126	106,403
National Oceanic and Atmospheric Administration (NOAA):				
Cooperative Institutes:				
UNIVE-GLOS Observing Network	11.432	University of Michigan	3002475304 / NA120AR4320071	147,122
Total U.S. Department of Commerce				535,022
U.S. Department of Defense				
No CFDA Number:				
LEIDO-Cheetah	12.unk	Leidos Inc	P010168662 #FA8650-15-C-0019	99,004
RICAR-Ricardo Test Support	12.unk	Ricardo Inc	PO #4500038656	22,699
MISSI-MIMC-FNR-ResourceSharing	12.unk	Mississippi State University	060803-360515.01	48,808
MISSI-APSRC-FNR-IP8 Ignition	12.unk	Mississippi State University	060803.360514.01	66,630
LEIDO-Oak II	12.unk	Leidos Inc	SUBCONTRACT #P010130462	29,664
CRAFT-MuSTI-Transfer Offshore	12.unk	Craft Engineering Associates Inc	PO#Z1101	34,150
LEIDO-MSDD	12.unk	Leidos Inc	P010146084	1,474
KESTR-Turbulence Compensation	12.unk	Kestrel Corporation	TECH S-USAF #FA8650-14-M-1761	50,000
MATRI-SAR-Aided Navigation Phase 2	12.unk	Matrix Research Inc	PO #2012-0219 SBIR PHASE 2	79,408
MATRI-Bistatic 3dMagi	12.unk	Matrix Research Inc	PO #2013-0354	(291)
MATRI-BiStatic Extraction	12.unk	Matrix Research Inc	2014-0330 #FA8650-13-C-1627	90,000
LEIDO-Acme	12.unk	Leidos, Inc.	PRIME 12-C-8917, PO10108055	405,157
SYSTE-Mathematical Models	12.unk	Systems Research and Applications Corporation	SUBCONTRACT #SRAS000497	58,144
SYSTE-Wind Mitigation Phase II	12.unk	Systems & Technology Research LLC	SUB#2013-1023/FA8650-13-C-1597	65,944
LEIDO-OPERA	12.unk	Leidos Inc	TASK ORDER #P010151900-1	45,004
THERM-Mitigate Sensor Saturationthe	12.unk	Thermoanalytics Inc	PRIME #FA8650-14-C-5014	73,617
TECHN-FNR-Sr Design-Design Challeng	12.unk	Technology Service Corporation	STUDENT PROJECT-TSC-1070-40066	20,935
WYLEA-MuSTI-Nonreciprocal Nanophoto	12.unk	Wyle Aerospace Group	PO# WSCS00031 TAT 261	73,777
HELIO-Range/Doppler Straddle	12.unk	Helios Remote Sensing Systems	1150-S01-HRSSI	197,894
SCIEN-PILOT-Task 3.3	12.unk	Leidos, Inc.	#P010124681 W15P7T-12-C-A034	18,302
ACADE-IMP-REAP at Michigan Tech	12.unk	Academy of Applied Science	AWARD 14-21A	5,657
CRAFT-AIM-JHSV Crane Review	12.unk	Craft Engineering Associates Inc	PO# AC0508	3,606
QUANT-AIM-RMCD Phase II SBIR	12.unk	Quantum Engineering Design Inc	MTU AGMT #1403009	12,029
ALION-Weapons Systems Contaminant	12.unk	Alion Science and Technology Corporation	PRIME SP0700-99-D-0301	22,777
ALION-Weapon Systems Acoustic Evalua	12.unk	Alion Science and Technology Corporation	ALION SUB 1126301 TASK ORD 003	136,535
DARPA-CCSR-FNR-Synchronization	12.unk	Direct	HR0011-13-C-0057	60,651
DARPA-Adaptive RADAR Countermeasure	12.unk	Direct	HR0011-13-C-0032 MOD #P00003	120,911
DARPA-OPTIMIZED Shared SPECTRUM	12.unk	Direct	HR0011-14-C-0024	299,640
DARPA-Multi-Aperture Imaging	12.unk	Direct	HR0011-14-C-0081	364,118
DARPA-Adaptive RADAR Countermeasure	12.unk	Direct	HR0011-13-C-0032	1,396,719
DARPA-Interferometric Tracking	12.unk	Direct	HR0011-14-C-0120	637,254
DARPA-Cooperative Shared Spectrum	12.unk	Direct	HR0011-14-C-0136	193,017
DARPA-Microwave Photonic Links	12.unk	Direct	HR0011-15-C-0082	83,194
USAIR-MTRI-Radar Frequency Sensing	12.unk	Direct	FA8750-05-C-0237 P00007	17,660
USAIR-Multi-Domain Intelligence	12.unk	Direct	FA8750-12-C-0032	501,879
USAIR-CCSR-Multi-Sensor Intell	12.unk	Direct	FA8750-12-2-0108	33,256
OFFIC-Super Resolution Reconstruct	12.unk	Direct	FA8750-12-C-0119	15,822
USAIR-Multi Domain Intelligence II	12.unk	Direct	FA8750-15-C-0051	263,991
USAIR-Penetration Fuzing	12.unk	Direct	FA8651-15-C-0066	3,506
USARM-Handheld Explosive Hazard	12.unk	Direct	W909MY-13-C-0029	440,496
USARM-Spatial Coherence Imaging	12.unk	Direct	W909MY-13-C-0013	182,101
OFFIC-ASSURED II-Pointman	12.unk	Direct	W56HZV-08-C-0525 MTU-AMMS-022	50,674
OFFIC-ASSURED-RCV Improvements	12.unk	Direct	W56HZV-08-C-0525 WD-024	46,491
OFFIC-ASSURED II-Route Clearance	12.unk	Direct	W56HZV-08-C-0525 WDAMMS-25	207,880
TACOM-ASSUREDIII-Roller Feasibility	12.unk	Direct	W56HZV-14-C-0286 WD 001	44,959
TACOM-ASSUREDIII-EHP Maturation	12.unk	Direct	W56HZV-14-C-0286 WD 002	717,842
TACOM-ASSUREDIII-RCV Support	12.unk	Direct	W56HZV-14-C-0286 WD 003	611,211
TACOM-ASSUREDIII-RCM Development	12.unk	Direct	W56HZV-14-C-0286 WD 004	177,292
TACOM-Assured III-Exploration Test	12.unk	Direct	W56HZV-14-C-0286 WD 006	209,515
TACOM-ASSURED III-Noise & Vibration	12.unk	Direct	W56HZV-14-C-0286 WD 007	23,285
TACOM-ASSUREDIII-JIEDDO-IED Payload	12.unk	Direct	W56HZV-14-C-0286MODP006 WD 008	153,767
TACOM-ASSUREDIII-Adv Tech Insertion	12.unk	Direct	W56HZV-14-C-0286 MODP0006WD005	298,451
				8,816,506

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Continued)				
U.S. Department of Defense (Concluded)				
Basic and Applied Scientific Research:				
OFFICE-IMP-Hi St Low Alloy Aluminum	12.300	Direct	N00014-11-1-0876	\$ 256,227
OFFIC-Info Recovery Algorithm Comp	12.300	Direct	N00014-13-1-0018	269,865
OFFIC-GLRC-Underwater Glider Fleet	12.300	Direct	N00014-14-1-0032	80,475
PENNS-GLRC-Ocean Basin Impact	12.300	Pennsylvania State University	PRIME N00014-11-1-0619 SA13-05	7,374
				<u>613,941</u>
Basic Scientific Research:				
OFFIC-MIMC-Agile Microgrids	12.431	Direct	W911NF-13-2-0024	303,458
USARM-MuSTI-First Principles Study	12.431	Direct	W911NF-14-2-0088	78,082
				<u>381,540</u>
Basic, Applied, and Advanced Research in Science and Engineering:				
AMERI-IMP-Melt 5a Development	12.630	American Lightweight Materials Manufacturing Innovation Inst	#N00014-14-2-0002 SUB 0002A-6	<u>14,042</u>
Air Force Defense Research Sciences Program:				
USAIR-Capstone Design Challenge	12.800	Direct	FA9550-11-1-0207	5,362
OFFIC-MuSTI-Model Hybrid Composites	12.800	Direct	FA9550-13-1-0030	84,958
USAIR-MuSTI-Magneto Electrostatic	12.800	Direct	FA9950-14-1-0337	147,399
USAIR-FNR-Fuze Test Capability	12.800	Direct	FA8651-14-2-0009	42,907
USAIR-MuSTI-Nanostructured Prop	12.800	Direct	FA2386-14-1-3030	103,318
NATIO-IMP-3D Weld Printing Platform	12.800	National Center for Defense Manufacturing and Machining	FA8650-12-2-7230	316,468
UNIVE-MACEEP-Electric Propulsion	12.800	University of Michigan	3001381267 P2	8,441
UNIVE-CCSR-Wave Optics Turbulence	12.800	University of Dayton Research Institute	RSC12034	73,650
MICHI-Fault Tolerant Paradigms	12.800	Michigan State University	RC102013MTU FA9550-12-1-0455	87,719
				<u>870,222</u>
Mathematical Sciences Grants Program:				
NATIO-FNR-Codes & Galois Geometries	12.901	Direct	H98230-15-1-0042	<u>26,705</u>
Total U.S. Department of Defense				<u>10,722,956</u>
U.S. Department of Interior				
No CFDA Number:				
WISCO-ESC-FFC-Ecological Benefits	15.unk	Wisconsin Dept of Natural Resources	PO# NMD000000056	369
WISCO-ESC-FFC-Lakeshore Restoration	15.unk	Wisconsin Dept of Natural Resources	PO #NME00000135	81,502
GRAND-Historic Landmark Nomination	15.unk	Grand Portage Reservation Tribal Council	LETTER RECEIVED 6/3/15	16,487
USAGR-Fire Emissions Inventory Tool	15.unk	Direct	13-JV-11261987-071	22,467
USPAR-CEBFM-Ferrous Metals in Herit	15.unk	Direct	MT-2210-12-NC-05	19,497
				<u>140,322</u>
Fish, Wildlife and Plant Conservation				
Resource Management:				
USBUR-NSSI Intergovernmental Webs	15.231	Direct	SUPPLEMENT NUMBER 0001	<u>68,138</u>
Science and Technology Projects Related to				
Coal Mining and Reclamation:				
SOUTH-BRC-Low Cost Green Technology	15.255	Southern Illinois University - Carbondale	AGREEMENT NO. 13-15	<u>13,609</u>
Keweenaw National Historical Park (NHP) Enhancement Grants:				
KEWEE-Torch Lake Copper Reclamation	15.407	Keweenaw NHP Advisory Commission	AGREEMENT NO. C2013-00015	1,425
KEWEE-Quincy Milling History	15.407	Keweenaw NHP Advisory Commission	C2015-015	840
				<u>2,265</u>
Fish and Wildlife Management Assistance:				
Development and Support of the USFW				
	15.608	Direct	30181AJ195 / F10AC00214	<u>57,220</u>
Coastal Program:				
USFIS-Abiotic & Biotic Constraints				
	15.630	Direct	F12AC01384	<u>38,000</u>
Research Grants (Generic):				
USFIS-Selawik Refuge Alaska				
	15.650	Direct	F12AC01268	<u>30,610</u>
U.S. Geological Survey Research and Data Collection:				
USGEO-Understand Fish Production				
	15.808	Direct	G12AC20299	412
USGEO-ESC-FFC-Global Warming				
	15.808	Direct	G14AC00019	15,266
				<u>15,678</u>

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Continued)				
U.S. Department of Interior (Concluded)				
National Land Remote Sensing-Education				
Outreach and Research:				
AMERI-StateView Program Development	15.815	AmericaView Inc	AV13-MI01	\$ 16,319
AMERI-StateView Program Develop YR2	15.815	AmericaView Inc	AV13-MI01 GY14	25,352
				<u>41,671</u>
National Climate Change and Wildlife Science Center				
UNIVE-ESC-FFC-Spruce Fir-Ecosystems	15.820	University of Minnesota	SUBAWARD NO. H003897101	<u>4,266</u>
National Resource Stewardship:				
USPAR-ESC-FFC-Wolf Moose 2011-15	15.944	Direct	AGRMT# P11AC90808	<u>38,733</u>
Cooperative Research and Training Programs Resources of the National Park System:				
USPAR-MTRI-Lake Bottoms	15.945	Direct	TASK AGMT NO P12AC10449	6,535
USPAR-ESC-FFC-Hurricane River Road	15.945	Direct	COOPERATIVEAGREEMENTP13AC00845	4,645
USPAR-ESC-FFC-Assessment of Mercury	15.945	Direct	AGREEMENT P14AC00490	16,184
				<u>27,364</u>
Total U.S. Department of Interior				<u>477,876</u>
U.S. Department of Labor				
Trade Adjustment Assistance Community College and Career Training (TAACCCT):				
BAYDE-PLC Education Simulation Game	17.282	Bay de Noc Community College	AGREEMENT DATED 4/2/14	<u>65,957</u>
U.S. Department of Transportation				
No CFDA Number:				
MITRA-MTTI-FNR-Unmanned Aerial Vehi	20.unk	Michigan Dept of Transportation	2013-0067 AUTH Z1 JOB #118059	53,999
CAMBR-MTTI-Road Practicioners	20.unk	Cambridge Systematics, Inc.	SUBCONTRACT #8738-001	31,596
NATIO-MTTI-Joint Deterioration Stud	20.unk	National Concrete Pavement Technology Center	ISU #474-17-40	4,659
IOWAS-IMP-Jointed Concrete Pavement	20.unk	Iowa State University	SUBCONTRACT #436-17-09B	13,849
MITRA-MTTI-Bridge Decks	20.unk	Michigan Dept of Transportation	2010-0295 AUTH 7 JOB#117429	39,459
MITRA-Wireless Data Collection	20.unk	Michigan Dept of Transportation	2013-0067 AUTH 2 JOB#121389	168,233
MITRA-MTTI-Improve Climatic Files	20.unk	Michigan Dept of Transportation	2013-0067 AUTH 3, JOB #121388	68,920
MITRA-MTTI-NURail Tier 1	20.unk	Michigan Dept of Transportation	2013-0067, AUTH Z11 JOB#126721	32,007
NATIO-Mapping Fire Danger	20.unk	National Center for Atmospheric Research	UCAR SUBCONTRACT NO. S15-13655	17,258
USTRA-Unpaved Road Conditions RS	20.unk	Direct	RITARS-11-H-MTU1	182,001
USTRA-APS-Locomotive Test	20.unk	Direct	DTFR53-13-P-00136	4,260
				<u>616,241</u>
University Transportation Centers Program:				
OHIOS-Truck Activity and Wait Times	20.701	Ohio State University	SUBAWARD NO. 60041614	33,853
UNIVE-MTTI-FNR-Rail Corridors	20.701	University of Wisconsin-Madison	AGREEMENT 557K524	37,196
UNIVE-MTTI-NURail Education Center	20.701	University of Illinois at Urbana-Champaign	2012-02061-05-00 CODE:A0694	227,669
				<u>298,718</u>
Transportation Planning, Research and Education:				
USTRA-MTTI-Auto Scour Detect Arrays	20.931	Direct	RITARS-12-H-MTU	219,075
USTRA-MTTI-Sust Geotech Asset Mgmt	20.931	Direct	RITARS-14-H-MTU	366,830
UNIVE-MTTI-Risk Infrastructure	20.931	University of Arkansas	SA1509067	574
				<u>586,479</u>
Total U.S. Department of Transportation				<u>1,501,438</u>
National Aeronautics and Space Administration				
No CFDA Number:				
EXOTE-Asteroid Redirection	43.unk	Exo Terra Resource	MTU AGMT #1404013	9,294
UNIVE-EPSSI-FNR-NPP Ozone Mapping	43.unk	University of Maryland College Park	Z664401 PRIME NNX11AK95G	26,354
UNIVE-FNR-MSGC-Co-Crystals/Rocket	43.unk	University of Michigan	CHECK #2993583	1,898
UNIVE-MSGC-MTTI-FNR-Frozen Porous	43.unk	University of Michigan	CHECK 3328610	4,752
UNIVE-HICO Iden of Harmful Algal	43.unk	University of Toledo	SUB #F2015-78, #GA-2014-144	48,789
USNAS-FNR-CSERI-Pic of the Day	43.unk	Direct	NNX09AD32G	480
USNAS-Vulnerability NA Boreal Peat	43.unk	Direct	NNX09AM15G	17,190
USNAS-Multi-Scale Water Quality Grt	43.unk	Direct	NNX09AU88G	7,602
USNAS-Harmful Algal Blooms	43.unk	Direct	NNC15VA51P	10,884
				<u>127,243</u>

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Continued)				
National Aeronautics and Space Administration (Concluded)				
Science:				
USNAS-Remote Sensing Models	43.001	Direct	NNX11AC72G	\$ 181,455
USNAS-FNR-EPPSI- A-Train Volcano	43.001	Direct	NNX11AF42G	18,244
USNAS-Linking Remote Sensing	43.001	Direct	NNX12AQ89G	139,374
USNAS-Agricultural & Wildland Fire	43.001	Direct	NNX12AQ90G	6,040
USNAS-Anthropogenic Fires	43.001	Direct	NNX13AC66G	51,019
USNAS - EPSSI - FNR - Climatology	43.001	Direct	NNX13AF50G	125,093
USNAS-EPSSI-FNR-Solar Activity	43.001	Direct	NNX113AF90G	107,014
USNAS-Linking Remote Sensing Data	43.001	Direct	NNX14AD63G	61,231
USNAS-GLRC-FNR-Spectral Character	43.001	Direct	NNX14AB80G	328,350
USNAS-GLRC-FNR-Changing Sea-Ice	43.001	Direct	NNX14AN78G	185,216
USNAS-Assessing Wetland Hydroperiod	43.001	Direct	NNX14AT45G	14,966
USNAS-Data on Boreal Wildfires	43.001	Direct	NNX15AD58G	59,973
BOWDO-Carbon Export Maine Coast	43.001	Bowdoin College	AGREEMENT NO 2011 001	81,820
CARNE-CO2 Monitoring Network	43.001	Carnegie Institute of Washington	SUBCONTRACT NO 9-10330-01	55,849
MASSA-GLRC-FNR-EcologicalViability	43.001	Massachusetts Institute of Technology	5710003376 PRIME 3NNX13AC34G	59,026
REGEN-Northern Peatland Ecosystems	43.001	Regents of the University of Minnesota	H004191701	42,016
UNIVE-FNR-EPSSI-Volcanic Sulfate	43.001	University of Nebraska - Lincoln	25-0514-0108-002 #NNX10AG60G	5,541
UNIVE-GLRC-Connecting Phytoplankton	43.001	University of Wisconsin-Madison	412K716 PRIME NNX11AD59G	3,112
UNIVE-MultSensor Record of Fire	43.001	University of Maryland	Z681801	104,181
UNIVE-EPSSI-FNR-Satellite Data	43.001	University of Maryland College Park	SUBAWARD NO. 19311-Z6929001	7,151
				<u>1,636,671</u>
Aeronautics:				
USNAS-FNR-MuSTI Noise Reduction App	43.002	Direct	NNX11AI72A	<u>78,659</u>
Cross Agency Support:				
USNAS-FNR-MuSTI-Mdl Polymer Nanocom	43.009	Direct	NNX09AM50A	6,518
USNAS-MUSTI-FNR-Cryogenic	43.009	Direct	NNX14AB05G	<u>326,202</u>
				<u>332,720</u>
Total National Aeronautics and Space Administration				<u>2,175,293</u>
National Science Foundation				
No CFDA Number:				
DETRO-IMP-4th Generation Steel wood	47.unk	Detroit Materials Inc	MTU AGREEMENT #1406002	32,657
JFDRA-Digital Technology Education	47.unk	J F Drake State Technical College	DPO-1201002 DUE-1205169	37,699
MICRO-Rapid Blood Typing	47.unk	Microdevice Engineering LLC	MTU AGMT #1312006	117,301
NANOI-MuSTI-Boron Nitride Nanotubes	47.unk	Nano Innovations, LLC	MTU #1302009	8,574
NITRA-IMP-Open Source Photometer	47.unk	Nitrate Elimination Co Inc	MICHIGAN TECH AGREEMENT #13110	98,748
QTEKL-IMP-Antimicrobial Plastic	47.unk	Qtek LLC	MICHIGAN TECH AGRMT #1311081	39,522
QTEKL-IMP-SBIR testing	47.unk	Qtek LLC	MTU#1408022	110
				<u>334,611</u>
Engineering Grants:				
NSF-CWS1-Mod Eval Hydro Micro DNAP	47.041	Direct	CBET-1034700	12,837
NSF-APSRC-CAREER Fluid Structure	47.041	Direct	CBET-0952218	82,385
NSF-Meeting NAE Grand Challenge	47.041	Direct	EEC-1024628	126,058
NSF-Collaborative ISES Study	47.041	Direct	EEC-1025220	15,473
NSF-CWS1-IDR:SustianableWater	47.041	Direct	CBET-1014818	22,283
NSF-SFI-RET-W2W Transp Shonnard	47.041	Direct	EEC-1009617	22,883
NSF-SFI Mainshock/Aftershock Seq	47.041	Direct	CMMI-1100423	45,634
NSF-CISSIC-Near Ground Wireless	47.041	Direct	ECCS-1101843	85,173
NSF-Making Optics from Scratch	47.041	Direct	ECCS-1202443	39,395
NSF-Integrated Wind Turbine Blade	47.041	Direct	CMMI-1200061	23,837
NSF-IMP-Metal Matrix Composites	47.041	Direct	CMMI-1200038	58,663
NSF-PERC-Physical Power Systems	47.041	Direct	ECCS-1128512	43,652
NSF-IMP-SOLAR ENERGY CONVERSION	47.041	Direct	CBET-1235750	48,743
NSF-SFI-Dust Mitigation	47.041	Direct	CMMI-1234126	62,961
NSF-SFI-Gas Diffusion Electrode	47.041	Direct	CBET-1235982	7,815
NSF-SFI-Electocatalytic Oxidation	47.041	Direct	CBET-1159448	1,866
NSF-BRC Preferential Hydration	47.041	Direct	CBET-1159425	49,959
NSF-MUSTI-Intercalation in Cathodes	47.041	Direct	CMMI-1200383	12,856
NSF-SFI-Aerodynamic Vibration	47.041	Direct	CMMI-1300970	105,751
NSF-MuSTI-On-Chip Gas Generation	47.041	Direct	CBET-1264549	2
NSF-EPSSI-FNR-Damage Assessment	47.041	Direct	CMMI-1300720	61,360
NSF-MTTI-ICorps: Infrastructure Sys	47.041	Direct	IIP-1342892	(254)
NSF-MTTI-SusChEM/Collaborative Rese	47.041	Direct	CMMI-1300286	17,987
NSF-APSRC-Combustion Engines	47.041	Direct	CBET-1258720	203,862
NSF-MuSTI-High Voltage Temperature	47.041	Direct	IIP-1362040	37,359
NSF-MuSTI-CAREER-Mobility Amputees	47.041	Direct	CBET-1350154	117,668
NSF-BRC-PFI: AIR-TT Blood Typing	47.041	Direct	IIP-1414331	113,875
NSF-I-Corps High Brightness Reagent	47.041	Direct	IIP-1445106	42,589

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Research and Development Cluster (Continued)				
National Science Foundation (Continued)				
Engineering Grants (Concluded):				
NSF-MuSTI-FNR-Millimeter Scale Flow	47.041	Direct	CBET-1402702	\$ 128,728
NSF-APS-GOALI: Easily Verifiable	47.041	Direct	CMMI-1435257	46,213
NSF-CWS-Molecular Level Investigati	47.041	Direct	CBET-1435926	72,296
NSF-BRC-CAREER:Improved Virus Remov	47.041	Direct	1451959	5,792
NSF-Cognitive Radio Networks	47.041	Direct	1523965	35,790
NSF-ILI-I-Corps Site Program	47.041	Direct	1450364	6,307
NSF-LSTI-GOALI:Graphen PaperSensor	47.041	Direct	1510006	388
UNIV-GLRC-STOP WORK-Underwater Ante	47.041	University of Connecticut	SUBAWARD NO. 62719	11,517
				<u>1,769,703</u>
Mathematical and Physical Sciences:				
NSF-Bound & Continuum Properties	47.049	Direct	PHY-0968205	17,534
NSF-BRC-Purification Synth Peptide	47.049	Direct	CHE-1111192	199
NSF-MuSTI-Cellulose Nanocrystals	47.049	Direct	DMR-1100806	51,990
NSF-SFI-Hydrocarbon Transportation	47.049	Direct	CHE-1230803	559,484
NSF-Numerical Methods Transmission	47.049	Direct	DMS-1321391	59,494
NSF-MuSTI Functional Boron Nitride	47.049	Direct	DMR-1261910	147,275
NSF-EPSSI-Cosmic Ray Acceleration	47.049	Direct	PHY-1307289 AMEND NO 1	181,466
NSF-Hyperbolic Conservation Laws	47.049	Direct	DMS-1316662	70,541
NSF-Workshop on Algebraic Design	47.049	Direct	DMS-1439448	7,914
NSF-MUSTI-CAREER-Biomineralization	47.049	Direct	DMR-1350734	46,620
NSF-BRC-Tunable Nitric Oxide	47.049	Direct	DMR-1410192	184,913
NSF-MuSTI-Metal Oxides	47.049	Direct	DMR-1410560	10,041
NSF-IMP-Domain Mechanisms	47.049	Direct	DMR-1409317	26,492
				<u>1,363,963</u>
Geosciences:				
NSF-EPSSI-IceNucleiInContactMode	47.050	Direct	AGS-1028998	35,800
NSF-EPSSI-Cloud Turbulence	47.050	Direct	AGS-1026123	172,447
NSF-EPSSI-MRI Dev Multiphase Turb	47.050	Direct	AGS-1039742	262,125
NSF-RSI-CAREER Volcano-Seismic	47.050	Direct	EAR-1053794	81,398
NSF-CAREER Flood Risk Projections	47.050	Direct	EAR-1053655	25,788
NSF-Geomagnetic Mafic Dikes India	47.050	Direct	EAR-1112952	47,328
NSF-EPPSI-FREE Tropospheric Aerosol	47.050	Direct	AGS-1110059	93,762
NSF-EPSSI-Physical/Radar Meteor	47.050	Direct	AGS-1119164	66,970
NSF-EPSSI-CAREER-Magnet Fingerprint	47.050	Direct	EAR-1149434	56,836
NSF-Mid-Contient Rift System	47.050	Direct	EAR-1148321	68,346
NSF-CWS2-South Florida Water	47.050	Direct	EAR-1204474	145,664
NSF-EPSSI-Rock Magnetometer	47.050	Direct	EAR-1160854	18
NSF-CWS2-Impacts of Global Transpor	47.050	Direct	ICER-1313755	608,129
NATIO-GLRC-Continuation of MPOWIR	47.050	Direct	OCE-1356212	3,993
INTER-Bioenergy Development	47.050	InterAmerican Institute for Global Change Research	GRANT AGREEMENT FOR CRNIII	60,330
UNIVE-GLRC-Detect Microcystis Bloom	47.050	University of New Hampshire	SUB NO. 13-061, #OCE-1313783	10,827
UNIVE-CWS-Experimental Frameworks	47.050	University of New Hampshire	SUB 14-066, PRIME ICER-1313804	31,534
UNIVE-RUI: Probing Caldera-Forming	47.050	University of Wisconsin-Oshkosh	13309302013-1NSF	33,495
				<u>1,804,790</u>
Computer and Information Science and Engineering:				
NATIO-NSF-CAREER-Model-Nxt-Gen-Sys	47.070	Direct	CCF-0643664	6,706
NSF-Framework for Algorithmic	47.070	Direct	CCF-1116546	45,681
NSF-CCSR-Virtual Environment System	47.070	Direct	CNS-1229297	38,165
NSF-Graph-Based Visual Analytics	47.070	Direct	IIS-1319363	21,197
NSF-CCSR-Graph Sparsification	47.070	Direct	CCF-1318694	47,339
NSF-CCSR-CAREER-Integrated Research	47.070	Direct	CCF-1349984	67,263
NSF-CAREER-Heterogeneous Manycore	47.070	Direct	CCF-1350206	30,994
NSF-EAGER Imperative Programs	47.070	Direct	CCF-1450062	82,184
NSF-CCSR-Collaborative Research	47.070	Direct	CNS-1422342	39,271
NSF-AIM- Architecture Optimization	47.070	Direct	CNS-1446622	33,464
NSF-GLRC-CAREER:Autonomous System	47.070	Direct	1453886	4,424
UNIVE-CGV:Big Scientific Data	47.070	University of Notre Dame	202405MTU PRIME: IIS-1456763	38,770
				<u>455,458</u>
Biological Sciences:				
NSF-ESC-FFC-Predation Eco System	47.074	Direct	DEB-1019928	28,653
NSF-ESC-FFC-PEATLAND ECOSYSTEMS	47.074	Direct	DEB-1146149	161,104
NSF-BRC-EAGER-DNA Synthesis	47.074	Direct	DBI-1225720	5,978
NSF-ESC-FFC-FNR-Nitrate Deposition	47.074	Direct	DEB-1251529	49,664
NSF-BRC-Targeting microRNAs	47.074	Direct	IOS-1340001	539,608
NSF-FFC-ESC-Peatland C Fluxes	47.074	Direct	DEB-1354370	6,828
NSF-CCSR-IDBR Unconventional Antenn	47.074	Direct	DBI-1353664	60,117
NSF-ESC-FFC-LTREB Terrestrial Chain	47.074	Direct	1453041	16,804
NSF-ESC-FNR-Career Riverine Ecosys	47.074	Direct	1451919	26,791
PENNS-FFC-BRC-Stress in Wood	47.074	Pennsylvania State University	4374-MTU-NSF-5974 IOS 1025974	14,927
VIRGI-BRC-Diphospho Triphospho Inos	47.074	Virgina Polytechnic Institute & State University	478501-19959 #MCB-1051646	3,403
				<u>913,877</u>

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Research and Development Cluster (Continued)				
National Science Foundation (Concluded)				
Social, Behavioral, and Economic Sciences:				
NSF-IMP-Ceramic Rehydroxylation	47.075	Direct	BCS-1219540	\$ 43,721
NSF-CAREER-Numeracy & Risk Literacy	47.075	Direct	SES-1253263	116,334
NSF-Self-Regulated Forest Sustain	47.075	Direct	SES-1251932	3,851
NSF-GLRC-Toxic Iron-Mining Contam	47.075	Direct	SES-1430755	60,657
				<u>224,563</u>
Education and Human Resources:				
NSF-EPSSI-Cyber Volcano Hazards Mod	47.076	Direct	DRL-0940883	46,148
NSF-Learning Through EFELTS	47.076	Direct	DUE-1023022	14,466
NSF-CAREER Math Moments Instru	47.076	Direct	DRL-1052958	101,046
NSF-ILI-Ethical Reasoning & Climate	47.076	Direct	DUE-1122390	6,000
NSF-Teaching IT Security	47.076	Direct	DUE-1140308	21,025
NSF-Modern Cryptography	47.076	Direct	DUE-1140512	12,625
NSF-Theory of Productive Math Use	47.076	Direct	AMENDMENT NO. 002	31,665
NSF-Accessible Access Control	47.076	Direct	DUE-1245310	109,912
NSF-Revamping Robotics Education	47.076	Direct	1501335	12,205
REGEN-ILI-Microaggressions in Teams	47.076	Regents of the University of Michigan	SUBCONTRACT NO:3003298295	43,416
				<u>398,508</u>
Polar Programs:				
NSF-Measuring Nitrogen Oxide GEO	47.078	Direct	ARC-1107398	56,937
NSF - Clean Snowmobile Challenge	47.078	Direct	ARC-1062619	6,000
				<u>62,937</u>
Office of International and Integrative Activities:				
NSF-SFI-Bioenergy Development	47.079	Direct	OISE-1243444	1,137,594
NSF-FNR-US-China-Germany Planning	47.079	Direct	IIA-1427665	23,027
				<u>1,160,621</u>
Office of Cyberinfrastructure:				
NSF-CWS2-Environmental CyberCitizen	47.080	Direct	OCI-1135523	71,014
				<u>71,014</u>
Total National Science Foundation				<u>8,560,045</u>
U.S. Environmental Protection Agency				
No CFDA Number:				
BATTE-Long Term Satellite	66.unk	Battelle	US001-0000427998	24,500
BATTE-GLRC-Erie Phosphorus Model	66.unk	Battelle	LETTER SUBCONTRACT 431347	56,793
ICFIN-Rangeland Fires Prototype	66.unk	ICF International	EP-BPA-12-H-002-BO#14KJBO0014	5,271
				<u>86,564</u>
Great Lakes Program:				
USENV-Wetland Map Protocol	66.469	Direct	GL-00E00559-0	22,310
USENV-GLRC-Eurasian Watermilfoil	66.469	Direct	GL-00E01291-0	254,815
				<u>277,125</u>
Science To Achieve Results (STAR) Research Program:				
USENV-EPSSI-Extreme Event Impacts	66.509	Direct	RD-83518901-0	91,560
Consolidated Research/Training/Fellowships:				
WATER-Removal of VOCs from Water	66.511	Water Research Foundation	PROJECT NUMBER 04439	16,419
National Student Design Competition for Sustainability:				
USENV-GLRC-Geothermal Energy Harnes	66.516	Direct	SU-83569201	9,224
				<u>9,224</u>
Total U.S. Environmental Protection Agency				<u>480,892</u>
U.S. Department of Energy				
No CFDA Number:				
ARGON-MIMC-Networked Microgrids	81.unk	Argonne National Laboratory	SUBCONTRACT NO. 3F-32461	31,978
BATTE-SFI-Pyrolysis of Waste	81.unk	Battelle Energy Alliance, LLC	CONTRACT #154519	11,455
BATTE-APS-Paddle Fast Pyrolysis	81.unk	Battelle Energy Alliance	CONTRACT #155738	6,714
GASTE-SFI-Hydropyrolysis Integrated	81.unk	Gas Technology Institute	PRIME #DE-EE0005992	133,595
LANZA-SFI-Life Cycle Assess	81.unk	LanzaTech Inc	DOE DE-FOA-0000467	3,238
PACIF-MuSTI-Situ Liquid Microscopy	81.unk	Pacific Northwest National Lab	241405	24,967
SANDI-AIM-Advanced Control Micro	81.unk	Sandia National Laboratories	PO#1416260	45,359
SANDI-AIM-FNR-Wave Energy Converter	81.unk	Sandia National Laboratories	PO#1514349	14,818
UCHIC-IMP-High Energy Lithium	81.unk	UChicago Argonne LLC	4F-30001	12,514
ARGON-MuSTI-New Sulfur-Carbon Catho	81.unk	Argonne National Laboratory	SUBCONTRACT NO. 4F31422	18,042
				<u>302,680</u>

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Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Research and Development Cluster (Concluded)				
U.S. Department of Energy (Concluded)				
Office of Science Financial Assistance Program:				
USENE-EPSSI-Contact Freezing	81.049	Direct	DE-SC0006949	\$ 29,242
USENE-ESC-FFC-Wood Carbon Pools	81.049	Direct	DE-SC0006986	3,357
USENE-BRC-Genes Affect Wood Biomass	81.049	Direct	DE-SC0008462	267,984
USENE-EPSSI-Atmospheric Transport	81.049	Direct	DE-SC0010019	84,713
USENE-ESC-FFC-Tropical C Cycling	81.049	Direct	DE-SC0012000	217,434
USENE-EPSSI-Particle Astrophysics	81.049	Direct	DE-SC0011689	220,531
USENE-EPSSI-Ice Microphysical Props	81.049	Direct	DE-SC0011690	116,029
USENE-MuSTI-Junctions BNNTs/CNTs	81.049	Direct	DE-SC0012762	134,614
AEROD-EPSSI-Cloud Particle Form	81.049	Aerodyne Research	SUB #ARI 11045-1 DE-SC0011935	28,743
				<u>1,102,647</u>
Renewable Energy Research and Development:				
THREE-APSRC-Low Cost Membrane	81.087	3M Company	SUBAWARD #USMMMYG79G	<u>118,497</u>
Advanced Research Projects Agency - Energy:				
LANZA-SFI-LCA Support Gas Conversio	81.135	Lanza Tech	MICHIGAN TECH AGMT #1306017	34,077
RELIN-IMP-Metallurgical Support	81.135	REL Inc	MTU AGMT #1412056	15,185
UNIVE-IMP-Additive Manufacturing	81.135	University of Maryland	13630-Z7180004, DEAR0000507	47,613
				<u>96,875</u>
Total U.S. Department of Energy				<u>1,620,699</u>
U.S. Department of Education				
Fund for the Improvement of Postsecondary Education:				
USEDU-EPSSI-Yr 1-INVOGE Program	84.116j	Direct	P116J090031-ACTION NO. 01	<u>69,677</u>
U.S. Department of Health and Human Services				
No CFDA Number:				
RADIO-CSERI-Shear Wave Speed	93.unk	Radiological Society of North America	HHSN268201300071C(K-3)	10,300
RADIO-BRC-Properties Human Liver	93.unk	Radiological Society of North America	HHSN268201300071C(Z-3)	163
REGEN-Quantitative Analysis	93.unk	Regents of the University of Michigan	MTU#1402036	7,001
CENTE-MuSTI-Mobile Haulage	93.unk	Direct	254-2014-M-59575	24,000
				<u>41,464</u>
Environmental Health:				
UNIVE-GLRC-Microcystis Blooms	93.113	University of New Hampshire	SUB NO. 13-060: #1R01ES021929	<u>15,542</u>
National Center on Sleep Disorders Research:				
UNIVE-Sleep Disordered Breathing	93.233	University of Michigan	SUBAWARD #3002300214	<u>14,880</u>
Discovery and Applied Research for Technological Innovations to Improve Human Health:				
NIH-ILI-Cardiac Annunciator	93.286	Direct	1 R03 EB014844-01	36,658
NIH-BRC-Novel Nano-Mechanical	93.286	Direct	1 R03 EB014504-01A1	(497)
NIH-IMP-Zn-Based Stent Materials	93.286	Direct	1R21EB019118-01A1	90,683
				<u>126,844</u>
Cancer Detection and Diagnosis Research:				
NIH-BRC-Virtual Breast Project	93.394	Direct	1 R15 CA179409-01A1	48,177
UNIVE-BRC-Ablation	93.394	University of Wisconsin-Madison	SUB #494K686 PRIME R01CA112192	5,160
				<u>53,337</u>
Cardiovascular Diseases Research:				
NIH-BRC-Lymphatic Collecting	93.837	Direct	1 R15 HL113954-01	31,076
NIH-BRC-Small Diameter Blood Vessel	93.837	Direct	1R15HL115521-01A1	204,848
NIH-BRC-Rats with High Salt Intake	93.837	Direct	1R15HL122952-01A1	75,242
				<u>311,166</u>
Lung Diseases Research:				
NIH-BRC-Sleep Deprivation in Women	93.838	Direct	IR15HL122919-01	<u>62,981</u>
Biomedical Research and Research Training:				
NIH-BRC-Enhance Barcode Readability	93.859	Direct	1 R15 GM088795-01	34
NIH-BRC-Biomimetic Tissue Adhesive	93.859	Direct	1 R15 GM104846-01	123,861
NIH-BRC-Oligodeoxynucleotide	93.859	Direct	1R15GM109288-01	73,316
NIH-BRC-Lysosomal pH in Living Cell	93.859	Direct	1 R15 GM114751-01	3,007
NIH-LSTI-Adhesive PEG-fibrinogen	93.859	Direct	1R15GM112082-01	6,700
				<u>206,918</u>
Child Health and Human Development Extramural Research:				
NIH-Net Migration Estimates	93.865	Direct	7R03HD069737-02	1,276
MAYOM-MuSTI-Intramuscular Pressure	93.865	Mayo Clinic Rochester	5R01HD031476-14 PO#63695169	19,834
NEWYO-NRI Robotic Orchestration ASD	93.865	New York Institute of Technology	SUB NO.1 PRIME 1R01HD082914-01	31,857
				<u>52,967</u>
Total U.S. Department of Health and Human Services				<u>886,099</u>
Total Research and Development Cluster				<u>28,692,093</u>

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Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Other Programs				
U.S. Department of Agriculture				
No CFDA Number:				
USAGR-ESC-FFC-Fire Preparedness	10.unk	Direct	15-CS-11242306-044	\$ 276
USAGR-ESC-FFC-Climate Chnge Science	10.unk	Direct	09-PA-11242306-142	5,717
USAGR-ESC-FFC-Ed/Outrch Climate Chg	10.unk	Direct	11-CR-11242306-124	122,532
USAGR-ESC-FFC-Instruct Climate	10.unk	Direct	12-JV-11242306-130	9,263
USAGR-ESC-FFC-Belowground Ecosystem	10.unk	Direct	13-JV-11242306-039	74,241
				<u>212,029</u>
Child and Adult Care Food Program	10.558	Michigan Dept of Education	-n/a-	<u>10,745</u>
Forestry Research:				
USAGR-ESC-FFC-Climate Change Silvi	10.652	Direct	11-CA-11330124-051	<u>18,872</u>
Cooperative Forestry Assistance:				
USAGR-SFI-Develop Forest Stewards	10.664	Direct	11-DG-11420004-234	<u>3,690</u>
Total U.S. Department of Agriculture				<u>245,336</u>
U.S. Department of Commerce				
Economic Development Technical Assistance:				
USCOM-Economic Dev in Central UP	11.303	Direct	EDA AWARD #06-06-05950	<u>1,395</u>
U.S. Department of Interior				
No CFDA Number:				
OZAUKE-ESC-FFC-Landbird Migration	15.unk	Ozaukee Washington Land Trust, Inc.	AGREEMENT DATED 11/22/2013	12,305
USPAR-ESC-FFC-Isle Roy Inst Support	15.unk	Direct	TASK AGRMT NO P09AC00199	22,930
John Payne - Intergovernmental Pers	15.unk	Direct	IPA EXTENSION DATE 3/20/15	<u>277,367</u>
Total U.S. Department of Interior				<u>312,602</u>
U.S. Department of Labor				
Mine Health and Safety Grants:				
USLAB-FY13 Mine Safety	17.600	Direct	MS-24591-13-55-R-26	(14,114)
USLAB-FY14 Mine Safety	17.600	Direct	MS-25890-14-55-R-26	<u>209,039</u>
Total U.S. Department of Labor				<u>194,925</u>
U.S. Department of Transportation				
No CFDA Number:				
MITRA-MTTI-TDG-Roadsoft 2015	20.unk	Michigan Dept of Transportation	2014-0952 AUTH Z5 JOB#126501	418,785
MITRA-PIOI-NST Institute 2014	20.unk	Michigan Dept of Transportation	2014-0557	53,600
MITRA-PIOI-NST Institute 2015	20.unk	Michigan Dept of Transportation	CONTRACT NO. 2015-0238	1,765
MITRA-MTTI-TDG-2014 LTAP	20.unk	Michigan Dept of Transportation	2010-0470 AUTH Z8,Z9,Z10	60,153
MITRA-MTTI-Bridge Design Analysis	20.unk	Michigan Dept of Transportation	CONTRACT NO. 2013-0506	239,687
MITRA-MTTI-TDG-2015 LTAP	20.unk	Michigan Dept of Transportation	2015-0027 AUTH Z1, Z2 & Z3	357,623
MITRA-MTTI-Roadsoft/MDOT Safety Uni	20.unk	Michigan Dept of Transportation	2014-0952, JOB #109731	63,945
MITRA-MTTI-MERL 2015	20.unk	Michigan Dept of Transportation	2011-0063 Z5 JOB#126532	46,780
MITRA-MTTI-TDG-Roadsoft 2014	20.unk	Michigan Dept of Transportation	2013-0067 AUTH Z9 #122402	340,580
MITRA-MTTI-MERL 2014	20.unk	Michigan Dept of Transportation	2011-0063 AUTH Z4 JOB #122555	47,229
				<u>1,630,147</u>
Highway Research and Development Program:				
USTRA-MTTI-MI Tribal Technical Asst	20.200	Direct	DTFH61-09-H-00001	(214)
USTRA-MTTI-Eastern Region TTAP Cntr	20.200	Direct	DTFH6114H00006	<u>294,287</u>
				<u>294,073</u>
University Transportation Centers Program:				
UNIVE-21st Century Education	20.701	University of Wisconsin-Madison	AGREEMENT #394K026	<u>38,731</u>
Total U.S. Department of Transportation				<u>1,962,951</u>
National Aeronautics and Space Administration				
No CFDA Number:				
UNIVE-MSGC-Magnesium Alloy Stents	43.unk	University of Michigan	CHECK#2993583	(100)
UNIVE-MSGC-Corrosion/Bioabsorb Matl	43.unk	University of Michigan	CHECK#2993583	158
UNIVE-MSGC-Copper-Vermiculite Fillr	43.unk	University of Michigan	CHECK #2993583	131
UNIVE-MSGC-FNR-Field Training	43.unk	University of Michigan	CHECK#2993583	8,600
UNIVE-MSGC-ILI-FY14-Administrative	43.unk	University of Michigan	CHECK #3144891	1,628
UNIVE-MSGC-Exploring the Geology	43.unk	University of Michigan	CHECK # 3238610	4,679
UNIVE-MSGC-GLRC-Phytoplankton	43.unk	University of Michigan	CHECK#3238610	1,667
UNIVE-MSGC-Zinc-Magnesium Alloys	43.unk	University of Michigan	CHECK#3238610	2,769
UNIVE-MSGC-Native American InvolvP2	43.unk	University of Michigan	CHECK #3238610	1,830
UNIVE-MSGC-APSRC-High Impact STEM	43.unk	University of Michigan	CHECK# 3238610	3,747
UNIVE-MSGC-Geotechnical Features	43.unk	University of Michigan	CHECK #3238610	3,373
UNIVE-MSGC-Quantity and Biodegrad	43.unk	University of Michigan	CHECK #3238610	3,547
UNIVE-MSGC-Thermal Remote Sensing	43.unk	University of Michigan	CHECK #3238610	5,000
UNIVE-MSGC-GLRC-FNR-Teacher Develop	43.unk	University of Michigan	CHECK# 3238610	6,523
UNIVE-MSGC-ILI-FY15-Administrative	43.unk	University of Michigan	CHECK #3238610	1,330

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Other Programs (Continued)				
National Aeronautics and Space Administration (Concluded)				
No CFDA Number (Concluded):				
UNIVE-MSGC-FNR-Engineering Olympics	43.unk	University of Michigan	CHECK #328610	\$ 6,591
UNIVE-MSGC-Secondary Lymphedema	43.unk	University of Michigan	CHECK#3238610	2,494
UNIVE-MSGC-FNR-ROVS Teaching STEM Z	43.unk	University of Michigan	CHECK #3238610	7,500
UNIVE-MSGC-GLRC-Yu Fellowship	43.unk	University of Michigan	CHECK #3516896 PO#3003524633	2,500
UNIVE-MSGC-Zwissler Fellowship	43.unk	University of Michigan	CHECK#3516896 PO#3003524633	658
				<u>64,625</u>
Science:				
USNAS-FNR-S. China-fellowship	43.001	Direct	NNX12AN97H	1,995
USNAS-FNR-Wright Fellowship	43.001	Direct	NNX13AN68H	30,693
USNAS-FNR-LSchaefer-fellowship	43.001	Direct	NNX13AO50H	29,849
USNAS-FNR-V. Flower Fellowship	43.001	Direct	NNX14AK94H	25,000
USNAS-EPSSI-FNR-Astronomy Picture	43.001	Direct	NNX14AP36G	46,652
				<u>134,189</u>
Education:				
USNAS-FNR-MuSTI-KTerhune fellowship	43.008	Direct	NNX13AM73H	57,564
				<u>256,378</u>
Total National Aeronautics and Space Administration				
National Endowment for the Humanities				
Promotion of the Arts Partnership Agreements:				
They All Die in the End: A Theatri	45.025	Michigan Council for Arts & Cultural Affairs	14OP0254PS	4,450
The Acting Company presents William	45.025	Arts Midwest	FY15-104	3,000
				<u>7,450</u>
Total National Endowment for the Humanities				
National Science Foundation				
No CFDA Number:				
NSF - IPA Assignment	47.unk	Direct	ECCS-1212464	108,129
NSF-IPA Assignment P Murthy	47.unk	Direct	DGE-1261336	185,801
				<u>293,930</u>
Engineering Grants:				
NSF-SFI-Biofuels and Bioenergy	47.041	Direct	CBET-1140152	217,927
Geosciences:				
NSF-Ethics Education 2.0	47.050	Direct	GEO-0933026	18,358
Computer and Information Science and Engineering:				
NSF-GLRC-NRI:Co-Robots to Engage	47.070	Direct	IIS-1426989	55,129
Biological Sciences:				
NSF-ESC-FFC-Ford Center Improvement	47.074	Direct	DBI-1226627	104,461
Education and Human Resources:				
NSF-EPSSI MITEP: Improving Earth	47.076	Direct	DUE-0831948	372,074
NSF-FNR-MTU SSEED Support4EngDegree	47.076	Direct	DUE-0965996	161,834
NSF-E. Petushek Fellowship	47.076	Direct	DGE-1051031 AMEND NO 002	2,667
NSF-M. Hopkins Fellowship	47.076	Direct	DGE-1051031	23,299
NSF-J Fuller Fellowship	47.076	Direct	DGE-1051031 AMEND NO 004	44,000
NSF-D Cerminaro Fellowship	47.076	Direct	DGE-1051031 AMEND. NO. 005	23,354
NSF-Professoriate Progression	47.076	Direct	HRD-1305678	51,879
NSF-B Winter Fellowship	47.076	Direct	DGE-1051031	45,271
NSF-C. Meingast Fellowship	47.076	Direct	AMENDMENT NO.007	41,333
				<u>765,711</u>
Office of Cyberinfrastructure:				
NSF-CWS2-Environmental CyberCitizen	47.080	Direct	OCI-1135523	13,335
ARRA- Trans-NSF Recovery Act Research Support:				
NSF-ARRA-FNR-CWS1-GK12-Huckins	47.082	Direct	DGE-0841073	415,639
NSF-FNR-ARRA-R Noyce Teacher Scholr	47.082	Direct	DUE-0934763	4,709
				<u>420,348</u>
Total National Science Foundation				
Small Business Administration				
Small Business Development Centers:				
SIXCO-Small Business Tech Dev	59.037	Six County Employment Alliance	CONTRACT AGREEMENT	13,712

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MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2015

Federal Agency / Cluster / Program Title	CFDA Number	Passed Through	Pass-through / Grantor Number	Federal Expenditures
Other Programs (Concluded)				
U.S. Department of Education				
Graduate Assistance in Areas of National Need:				
USEDU-ASISC-FNR-GAANN: Chem Eng Flw	84.200	Direct	P200A090124	\$ 6,071
Gaining Early Awareness and Readiness for Undergraduate Programs:				
MILAB-GEAR UP 2014	84.334	Michigan Dept of Labor & Economic Growth	GRANT NUMBER: 13-00-07	36,451
MILAB-GEAR UP 2015	84.334	Michigan Dept of Labor & Economic Growth	GRANT NUMBER: 14-00-07	30,181
				<u>66,632</u>
Improving Teacher Quality State Grants:				
MIEDU-EPDIS- Biological Sciences	84.367B	Michigan Department of Education	130290-018	96,457
MIEDU-EPDIS- Mathematical Practice	84.367B	Michigan Department of Education	140290-016	83,012
				<u>179,469</u>
Total U.S. Department of Education				<u>252,172</u>
Total Other Programs				<u>5,136,120</u>
Total Expenditures of Federal Awards				<u>\$ 71,242,904</u>
				concluded

See notes to schedule of expenditures of federal awards.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

1. BASIS OF PRESENTATION

The accompanying schedule of expenditures of federal awards (the "Schedule") includes the federal grant activity of Michigan Technological University (the "University") under programs of the federal government for the year ended June 30, 2015. The information in this schedule is presented in accordance with the requirements of the Office of Management and Budget (OMB) Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations*. Because the schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position or cash flows of the University.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Expenditures reported on the Schedule are reported on the accrual basis of accounting, which is described in Note 1 to the University's financial statements. Such expenditures are recognized following the cost principles contained in OMB Circular A-21, *Cost Principles for Educational Institutions*, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. Pass-through entity identifying numbers are presented where available.

3. SUBRECIPIENTS

The University administers certain federal awards programs through subrecipients. Those subrecipients are not considered part of the University's reporting entity. Of the federal expenditures presented in the Schedule, the University provided federal awards to subrecipients as follows:

Program Title	CFDA Number	Amount Provided to Subrecipients
Department of Agriculture	10.unk	\$ 9,263
Forestry Research	10.652	17,156
Climate and Atmospheric Research	11.431	12,310
Department of Defense	12.unk	945,684
Basic and Applied Scientific Research	12.300	767
Air Force Defense Research Sciences Program	12.800	88,584
Department of Transportation	20.unk	60,436
University Transportation Centers Program	20.701	19,618
Transportation Planning, Research and Education	20.931	200,079
Science	43.001	444,406
Cross Agency Support	43.009	89,785
Engineering Grants	47.041	143,961
Geosciences	47.050	271,546
Biological Sciences	47.074	234,410
Education and Human Resources	47.076	148,288
Office of International and Integrative Activities	47.079	403,428
Office of Cyberinfrastructure	47.080	2,466
ARRA- Trans-Nsf Recovery Act Research Support	47.082	20,875
Small Business Development Centers	59.037	12,284
Great Lakes Program	66.469	31,837
Department of Energy	81.unk	2,113

MICHIGAN TECHNOLOGICAL UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

Program Title	CFDA Number	Amount Provided to Subrecipients
Office of Science Financial Assistance Program	81.049	\$ 71,223
Fund for the Improvement of Postsecondary Education	84.116	39,691
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	(951)
Child Health and Human Development	93.865	1,629
Total provided to subrecipients		\$ 3,270,888

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**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER
FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN
ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

November 13, 2015

To the Board of Trustees
Michigan Technological University
Houghton, Michigan

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of **Michigan Technological University** (the "University"), as of and for the year ended June 30, 2015, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated November 13, 2015.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

**INDEPENDENT AUDITORS' REPORT ON COMPLIANCE FOR
EACH MAJOR FEDERAL PROGRAM AND ON INTERNAL CONTROL
OVER COMPLIANCE REQUIRED BY OMB CIRCULAR A-133**

November 13, 2015

To the Board of Trustees
Michigan Technological University
Houghton, Michigan

Report on Compliance for Each Major Federal Program

We have audited the compliance of **Michigan Technological University** (the "University") with the types of compliance requirements described in the *2 CFR 200 Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2015. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with the requirements of laws, regulations, contracts, and grants applicable to its federal programs.

Independent Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States; and OMB Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations*. Those standards and OMB Circular A-133 require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2015.

Report on Internal Control Over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with OMB Circular A-133, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A *material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Purpose of this Report

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of OMB Circular A-133. Accordingly, this report is not suitable for any other purpose.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Findings and Questioned Costs

For the Year Ended June 30, 2015

SECTION I - SUMMARY OF AUDITORS' RESULTS

Financial Statements

Type of auditors' report issued:

Unmodified

Internal control over financial reporting:

Material weakness(es) identified?

_____ yes X no

Significant deficiency(ies) identified?

_____ yes X none reported

Noncompliance material to financial statements noted?

_____ yes X no

Federal Awards

Internal control over major programs:

Material weakness(es) identified?

_____ yes X no

Significant deficiency(ies) identified?

_____ yes X none reported

Type of auditors' report issued on compliance for major programs:

Unmodified

Any audit findings disclosed that are required to be reported in accordance with Circular A-133, Section 510(a)?

_____ yes X no

Identification of major programs:

CFDA Number

84.007, 84.033, 84.038, 84.063, 84.268
Various

Name of Federal Program or Cluster

Student Financial Assistance Cluster
Research and Development Cluster

Dollar threshold used to distinguish between Type A and Type B programs:

\$ 2,137,287

Auditee qualified as low-risk auditee?

X yes _____ no

MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Findings and Questioned Costs

For the Year Ended June 30, 2015

SECTION II - FINANCIAL STATEMENT FINDINGS

None reported.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Findings and Questioned Costs

For the Year Ended June 30, 2015

SECTION III - FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

None reported.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Summary Schedule of Prior Audit Findings

For the Year Ended June 30, 2015

None reported.

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