

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**SINGLE AUDIT REPORT**

**FOR THE YEAR ENDED JUNE 30, 2009**



CPAs • Business Consultants • Financial Advisors

**MICHIGAN TECHNOLOGICAL UNIVERSITY  
SINGLE AUDIT**

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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***

October 16, 2009

Board of Control  
Michigan Technological University  
Houghton, Michigan

We have audited the financial statements of the business type activities and the discretely presented component unit of *Michigan Technological University*, (the "University"), as of and for the year ended June 30, 2009, and have issued our report thereon dated October 16, 2009. We conducted our audit in accordance with 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.

**Internal Control Over Financial Reporting**

In planning and performing our audit, we considered the University's internal control over financial reporting as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of University's internal control over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over financial reporting.

A *control deficiency* 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 misstatements on a timely basis. A *significant deficiency* is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to initiate, authorize, record, process, or report financial data reliably in accordance with generally accepted accounting principles, such that there is more than a remote likelihood that a misstatement of the entity's financial statements that is more than inconsequential will not be prevented or detected by the entity's internal control.

A *material weakness* is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that a material misstatement of the financial statements will not be prevented or detected by the entity's internal control.

Our consideration of the internal control over financial reporting was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the University's financial statements are free of 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*.

This report is intended solely for the information and use of management and the Board of Control, federal awarding agencies and pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.

A handwritten signature in cursive script that reads "Lehmann Johnson".

**INDEPENDENT AUDITORS' REPORT ON COMPLIANCE WITH REQUIREMENTS  
APPLICABLE TO EACH MAJOR PROGRAM AND ON INTERNAL CONTROL OVER  
COMPLIANCE IN ACCORDANCE WITH OMB CIRCULAR A-133**

December 8, 2009

Board of Control  
Michigan Technological University  
Houghton, Michigan

**Compliance**

We have audited the compliance of Michigan Technological University (the "University"), with the types of compliance requirements described in the *U.S. Office of Management and Budget (OMB) Circular A-133 Compliance Supplement* that are applicable to each of its major federal programs for the year ended June 30, 2009. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs. Compliance with the requirements of laws, regulations, contracts and grants applicable to each of its major federal programs is the responsibility of the University's management. Our responsibility is to express an opinion on the University's compliance based on our audit.

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. Our audit does not provide a legal determination of the University's compliance with those requirements.

In our opinion, the University complied, in all material respects, with the requirements referred to above that are applicable to each of its major federal programs for the year ended June 30, 2009.

**Internal Control Over Compliance**

The management of the University is responsible for establishing and maintaining effective internal control over compliance with the requirements of laws, regulations, contracts, and grants applicable to federal programs. In planning and performing our audit, we considered the University's internal control over compliance with the requirements that could have a direct and

material effect on a major federal program in order to determine our auditing procedures for the purpose of expressing our opinion on compliance, 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 *control deficiency* in internal control over compliance 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 noncompliance with a type of compliance requirement of a federal program on a timely basis. A *significant deficiency* is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to administer a federal program such that there is more than a remote likelihood that noncompliance with a type of compliance requirement of a federal program that is more than inconsequential will not be prevented or detected by the entity's internal control.

A *material weakness* is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that material noncompliance with a type of compliance requirement of a federal program will not be prevented or detected by the entity's internal control.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above.

### **Schedule of Expenditures of Federal Awards**

We have audited the financial statements of the business-type activities and the discretely presented component unit of *Michigan Technological University*, as of and for the year ended June 30, 2009 and have issued our report thereon dated October 16, 2009. Our audit was performed for the purpose of forming our opinions on the financial statements that collectively comprise the University's 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 has been subjected to the auditing procedures applied in the audit of the financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

This report is intended solely for the information and use of management, the Board of Control, federal awarding agencies and pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.



**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Student Financial Aid Cluster</b>				
<b>Direct Programs with CFDA Numbers</b>				
<b>US Department of Education</b>				
<b>84.033</b>	<b>Federal Work-Study Program</b>			
	College Work Study Program	-n/a-	-n/a-	\$ 285,878
<b>84.038</b>	<b>Federal Perkins Loan Program-Federal Capital Contributions</b>			
	Perkins	-n/a-	-n/a-	1,501,215
<b>84.063</b>	<b>Federal Pell Grant Program</b>			
	Pell Grant Scholarship	-n/a-	-n/a-	3,933,366
<b>84.066</b>	<b>TRIO-Educational Opportunity Centers</b>			
	Supplemental Education Opportunity Grant	-n/a-	-n/a-	354,525
<b>84.268</b>	<b>Federal Direct Student Loans</b>			
	Federal Direct Loans	-n/a-	-n/a-	27,552,760
<b>84.375</b>	<b>Academic Competitiveness Grants</b>			
	Academic Competitiveness Grant	-n/a-	-n/a-	236,625
<b>84.376</b>	<b>National Science and Mathematics Access to Retain Talent (SMART) Grants</b>			
	National SMART Grant	-n/a-	-n/a-	<u>404,000</u>
<b>Total US Department of Education - Direct Programs with CFDA Numbers</b>				<b>34,268,369</b>
<b>Student Financial Aid (No CFDA)</b>				
<b>Direct Programs with no CFDA Number</b>				
<b>US Department of Education</b>				
<b>84.unk</b>	<b>No CFDA Number</b>			
	Robert C. Byrd Honors	-n/a-	-n/a-	<u>43,500</u>
<b>Total Student Financial Aid</b>				<b><u>34,311,869</u></b>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid)</b>				
<b>Direct Programs</b>				
<b>US Department of Agriculture</b>				
<b>10.unk</b>	<b>No CFDA Number</b>			
	USAGR - Houghton Mesocosm	-n/a-	AG-63PX-P-08-0089	\$ 4,988
	USAGR-ESC-FFC-Silvicultur Prgm 2008	-n/a-	AG-3187-C-07-0022 MOD 0001	4,005
	USAGR-ESC-FFC-Silviculturist Progm	-n/a-	AG-3187-C-07-0022 MOD 0003	83,616
	USAGR-FFC-Below Grnd Ecosystem	-n/a-	08-JV-11242306-064	3,884
	USDA-ESC-FFC-Lk States Silviculture	-n/a-	LETTER DATED 05/30/08	21,929
	USFOR-ESC-FFC-Sustain Forest Mgmt	-n/a-	FS #08-CR-11242306-089 MOD 1	<u>38,281</u>
<b>Total US Department of Agriculture</b>				<u><b>156,703</b></u>
<b>US Department of Commerce</b>				
<b>11.unk</b>	<b>No CFDA Number</b>			
	UPPCO Renovation	-n/a-	#06-01-05321	<u>237,892</u>
<b>US Department of Defense</b>				
<b>12.unk</b>	<b>No CFDA Number</b>			
	USARM-CWS-IPA Agreement D Watkins	-n/a-	W91238-08-P-0035	<u>979</u>
<b>US Department of Interior</b>				
<b>15.929</b>	<b>Save America's Treasures</b>			
	USPAR-Relocation A.E. Seaman Museum	-n/a-	26-04-ML-0037	<u>13,360</u>
<b>15.unk</b>	<b>No CFDA Number</b>			
	USPAR-FFC-IRI-Join the Pack	-n/a-	H6000082000 TASK J631008I020	<u>10,951</u>
<b>Total US Department of Interior</b>				<u><b>24,311</b></u>



# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Direct Programs - continued</b>				
<b>US Department of Labor</b>				
<b>17.600</b>	<b>Mine Health and Safety Grants</b>			
	USLAB-7 MI Mine Safety P	-n/a-	MS-17093-08-5-R-26	\$ 124,045
	USLAB-Yr 8-MI Mine Safety	-n/a-	MS-18845-09-55-R-26	<u>163,395</u>
<b>Total US Department of Labor</b>				<b><u>287,440</u></b>
<b>US Department of Transportation</b>				
<b>20.200</b>	<b>Highway Research and Development Program</b>			
	USTRAM- MI Tribal Technical Assistanc	-n/a-	DTFH61-09-H-00001	<u>128,993</u>
<b>20.215</b>	<b>Highway Training and Education</b>			
	FEDER-MTTI-Eisenhower Fellowship	-n/a-	DDEGRD-08-X-00460	<u>1,500</u>
<b>20.unk</b>	<b>No CFDA Number</b>			
	USTRAM- MTI- Tribal Technical Assist	-n/a-	DTFH61-04-H-00005-AMD 12	<u>145,143</u>
<b>Total US Department of Transportation</b>				<b><u>275,636</u></b>
<b>National Aeronautics and Space Administration</b>				
<b>43.unk</b>	<b>No CFDA number</b>			
	USNAS-J Fugal & E. Saw Flwshp	-n/a-	NNX06AF98H SUPPL 1	<u>4,610</u>
<b>National Science Foundation</b>				
<b>47.041</b>	<b>Engineering Grants</b>			
	NATIO-IIS-Assess Impact of Teaching	-n/a-	EEC-0835986	18,106
	NSF-ATDC-Culture Rural-Enterprise	-n/a-	EEC-0438528	65,701
	NSF-ATDC-Entreprn Culture Rural	-n/a-	EEC-0438528	262,280

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Direct Programs - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.041</b>	<b>Engineering Grants - continued</b>			
	NSF-CWS-2008 Int Symp Snc Res Mgmt	-n/a-	CBET-0827497	\$ 352
	NSF-CWS-2008 Int Symp Soc Res Mgmt	-n/a-	CBET-0827497	1,512
	NSF-IIS-High School Enterprise	-n/a-	EEC-0835670	48,621
	NSF-IIS-Particpnt Exp-HS Enterprise	-n/a-	EEC-0835670	39,161
				<u>435,733</u>
<b>47.050</b>	<b>Geosciences</b>			
	NATIO-Particpt Travel Suppt Volcano	-n/a-	EAR-0824339	36,000
	NSF-Earth Science Education	-n/a-	GEO-0608039	40,195
	NSF-Participant Support Earth Sci	-n/a-	GEO-0608039	538
				<u>76,733</u>
<b>47.070</b>	<b>Computer and Information Science and Engineering</b>			
	NSF-CPATH-CB Chautauqua Series	-n/a-	CCF-0722231	33,468
	NSF-CPATH-CB Participant Support	-n/a-	CCF-0722231	2,717
				<u>36,185</u>
<b>47.076</b>	<b>Education and Human Resources</b>			
	NATIO - Part Exp - EnVISIONS	-n/a-	HRD-0714197	27,269
	NATIO-EnVISIONS	-n/a-	HRD-0714197	18,939
	NSF-ADV ACCT-Matthew Barron Flwshp	-n/a-	DGE-0539494 AMENDMENT NO. 002	40,567
	NSF-CWS-FNR-Grad Schlr Global Outlk	-n/a-	DUE-0806569	26,678

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Direct Programs - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.076</b>	<b>Education and Human Resources - continued</b>			
	NSF-CWS-FNR-Particpnt-Grad Scholars	-n/a-	DUE-0806569	\$ 75,245
	NSF-Erin Satchell Fellowship	-n/a-	DGE-0539494 AMENDMENT NO. 002	31,487
	NSF-Heath Wright Fellowship	-n/a-	DGE-0539494-AMEND 003	15,250
	NSF-IIS-High School Enterprise	-n/a-	DRL-0833542	23,434
	NSF-IIS-Particpnt Exp-HS Enterprise	-n/a-	DRL-0833542	9,950
	NSF-Meghan McGee Fellowship	-n/a-	DGE-0539494 AMENDMENT NO. 002	2,500
	NSF-MITEP: Improving Earth Sci Ed	-n/a-	DUE-0831948	110,401
	NSF-MUSTI-Mark Griep Fellowship	-n/a-	DGE-0539494 AMENDMENT NO. 002	17,608
	NSF-Particpnt Exp-Impr Earth Sci Ed	-n/a-	DUE-0831948	30,934
	NSF-SFI-ADVANCE PAID Awd: Chg Face	-n/a-	HRD-0820083	98,488
	NSF-SFI-Family Engineering	-n/a-	DRL-0741709	249,618
	NSF-SFI-GRA-ADVANCE PAID Awd	-n/a-	HRD-0820083	13,538
	NSF-SFI-Par Exp-Family Eng	-n/a-	DRL-0741709	43,737
	NSF-SFI-Valerie Fuchs Fellowship	-n/a-	DGE-0539494 AMENDMENT NO. 002	40,500
				<hr/> 876,143
<b>47.078</b>	<b>Polar Programs</b>			
	NATIO-Part Exp-Zero Emissions	-n/a-	ARC-0808798	17,912
	NATIO-Zero Emissions Snowmo Comp	-n/a-	ARC-0808798	7,751
				<hr/> 25,663

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Direct Programs - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.unk</b>	<b>No CFDA Number</b>			
	NSF - Yr 3 - IPA - Sheryl Sorby	-n/a-	DUE-0715774-002	\$ 201,207
	NSF-IPA-Yr2-Assignment Sorby S	-n/a-	DUE-0715774-002	<u>25,185</u>
				<u>226,392</u>
<b>Total National Science Foundation</b>				<b><u>1,676,849</u></b>
<b>US Environmental Protection Agency</b>				
<b>66.513</b>	<b>Greater Research Opportunities (GRO) Fellowships For Undergraduate/Graduate Environmental Study</b>			
	EPA-Joseph Bump Fellowship	-n/a-	MA-91652601-0,1,2	1,270
	EPA-SFI-Grad Fellowship-L.Fry	-n/a-	MA-91686301-1	<u>19,952</u>
<b>Total US Environmental Protection Agency</b>				<b><u>21,222</u></b>
<b>US Department of Education</b>				
<b>84.116</b>	<b>Fund for the Improvement of Postsecondary Education</b>			
	USEDU/RSI-YR 2-EHAZ Am Earth Haz	-n/a-	P116N040003-ACTION NO. 06	6,171
	USEDU-RSI-YR 3-EHA ZiAmer	-n/a-	P116N040003-ACTION NO. 06	23,406
	USEDU-RSI-Yr4-EHAZ-Earth Hazards	-n/a-	P116N040003-ACTION NO. 06	19,073
	USEDU-CWS-Yr 1-SusR Project	-n/a-	P116N080002	<u>11,687</u>
				<u>60,337</u>
<b>84.200</b>	<b>Graduate Assistance in Areas of National Need</b>			
	USEDU - GAANN: YEAR 3 MAIN	-n/a-	P200A030192-05-ACTION NO. 03	(24)

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Direct Programs - continued</b>				
<b>US Department of Education - continued</b>				
<b>84.200</b>	<b>Graduate Assistance in Areas of National Need - continued</b>			
	USEDU-GAANN-YR2-B Ott Fellow	-n/a-	P200A030192-05-ACTION NO. 03	\$ 1,951
	USEDU-GAANN-YR2-Carlson Fellow	-n/a-	P200A030192-05-ACTION NO. 03	1,305
	USEDU-GAANN-YR2-Copeland Fellow	-n/a-	P200A030192-05-ACTION NO. 03	(703)
	USEDU-GAANN-YR2-Jeltenma Fellow	-n/a-	P200A030192-05-ACTION NO. 03	(1,144)
	USEDU-GAANN-YR2-Lewandowski Fellow	-n/a-	P200A030192-05-ACTION NO. 03	1,163
	USEDU-GAANN-YR2-Weigand Fellow	-n/a-	P200A030192-05-ACTION NO. 03	816
				<u>3,364</u>
	<b>Total US Department of Education</b>			<u>63,701</u>
<b>US Department of Homeland Security</b>				
<b>97.044</b>	<b>Assistance to Firefighters Grant</b>			
	USHOM-Fire Prevention & Safety	-n/a-	EMW-2007-FP-02272	32,400
				<u>2,781,743</u>
<b>Total Other Programs (Non-Student Financial Aid) - Direct Programs</b>				
<b>Pass-through Programs</b>				
<b>US Department of Agriculture</b>				
<b>10.558</b>	<b>Child and Adult Care Food Program</b>			
	Child Care Center Food Program	Michigan Department of Education	-n/a-	12,009
<b>10.664</b>	<b>Cooperative Forestry Assistance (A,B)</b>			
	FORES-FFC-Ford Center & Stream	Forest Stewardship Program	38-6005955	4,556
				<u>16,565</u>
<b>Total US Department of Agriculture</b>				

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Pass-through Programs - continued</b>				
<b>US Department of Defense</b>				
<b>12.unk</b>	<b>No CFDA Number</b>			
	EE SD-C/MIT/Radar Comm Sim/FPT	Massachusetts Institute of Technology Lincoln Laboratory	CONTRACT DATED 10/2/08	\$ 16,895
	GENER-Intl Wshop Comp Mtls Sc Cairo	General Dynamics Information Technology Inc.	LETTER DATED 10/24/08	<u>9,300</u>
<b>Total US Department of Defense</b>				<b><u>26,195</u></b>
<b>US Department of Housing and Urban Development</b>				
<b>14.unk</b>	<b>No CFDA Number</b>			
	Advancing the Relocation of the A.E. Seamar	Michigan Economic Development Corporation	B-06-SP-MI-0494	11,008
	MIECO-Relocation A.E. Seaman Mnrl	Michigan Economic Development Corporation	B-04-SP-MI-0364	<u>19,103</u>
<b>Total US Department of Housing and Urban Development</b>				<b><u>30,111</u></b>
<b>US Department of Transportation</b>				
<b>20.unk</b>	<b>No CFDA Number</b>			
	MITRA-MTTI - 2009 ORPB Newsletter	Michigan Department of Transportation	2006-0414 AUTH 20	25,983
	MITRA-MTTI-2008 ORNBP	Michigan Department of Transportation	NO 2006-0414 AUTH NO. 15	24,564
	MITRA-MTTI-MERL 2008	Michigan Department of Transportation	CONTRACT 2005-0014 AUTH #5	51,015
	MITRA-MTTI-MERL 2009	Michigan Department of Transportation	2005-0014 AUTHORIZATION Z6	21,646
	MITRA-MTTI-Roadsoft Safety Pilot 08	Michigan Department of Transportation	2006-0414 AUTH 17	13,483
	MITRA-MTTI-TDG-Job 101367 LTAP 2008	Michigan Department of Transportation	2003-0062 AUTH 6	46,219
	MITRA-MTTI-TDG-LTAP 2009	Michigan Department of Transportation	2003-0062 AUTH 7	289,324
	MITRA-MTTI-TDG-RoadSoft 2008	Michigan Department of Transportation	WORK AUTHORIZATION NO. Z6	295,485
	MITRA-MTTI-TDG-Roadsoft 2009	Michigan Department of Transportation	2007-0339 AUTHORIZATION Z11	353,658

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Pass-through Programs - continued</b>				
<b>US Department of Transportation - continued</b>				
<b>20.unk</b>	<b>No CFDA Number - continued</b>			
	MITRA-MTTI-TDG-Roadsoft Safety Mod	Michigan Department of Transportation	2007-0339 AUTH Z4	\$ 36,321
	UNIVE-Great Lakes Maritime	University of Wisconsin-Superior	UNIV OF WI-SUP SUB	<u>8,529</u>
<b>Total US Department of Transportation</b>				<b><u>1,166,227</u></b>
<b>National Aeronautics and Space Administration</b>				
<b>43.unk</b>	<b>No CFDA Number</b>			
	UNIVE-A.Zevalkink-Regenerable Emitt	University of Michigan	CHECK #1821532	2,490
	UNIVE-Admin Space Grant	University of Michigan	CHK #1687186	2,050
	UNIVE-Admin Space Grant 08/09	University of Michigan	CHECK # 1876151	300
	UNIVE-APS-M.Woon-Butanol as Blendng	University of Michigan	CHECK #1821532	2,500
	UNIVE-CWS-CP Limnological Rsch	University of Michigan	SPACE GRT CHK 1672756	306
	UNIVE-CWS-SFI-C.Alonso-Delin Fract	University of Michigan	CHECK #1821532 MSGC	2,500
	UNIVE-CWS-SFI-Delineating Fracture	University of Michigan	CHECK #1821532 MSGC	1,796
	UNIVE-D.Walters-Metal Nanotip	University of Michigan	CHECK #1821532	427
	UNIVE-Energy & Its Impact	University of Michigan	SPACE GRT CHK 1672756	5,000
	UNIVE-Eng to Rural Elem Students	University of Michigan	CHECK #1847384	8,990
	UNIVE-Incr Interest STEM Field	University of Michigan	CHK #1847384	5,000
	UNIVE-J.Thompson-SNOES CoanSat Prjc	University of Michigan	CHECK #1821532	41
	UNIVE-Limnological Rsch Lk Superior	University of Michigan	SPACE GRT CHK 1672756	258
	UNIVE-M.McGee-Bear Parathyroid Horm	University of Michigan	CHECK #1821532	5,000
	UNIVE-MI Space-Alkaline Phosphatase	University of Michigan	CHECK #1988116	1,280
	UNIVE-MI Space-Desert Varnish Kenya	University of Michigan	CHECK #1988116	864
	UNIVE-MI Space-Disuse Osteoporosis	University of Michigan	CHECK #1988116	1,250
	UNIVE-MI Space-Influence Meniscal T	University of Michigan	CHECK #1988116	2,858

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Pass-through Programs - continued</b>				
<b>National Aeronautics and Space Administration - continued</b>				
<b>43.unk</b>	<b>No CFDA Number - continued</b>			
	UNIVE-MI Space-Nitric Oxide	University of Michigan	CHECK #1988116	\$ 1,050
	UNIVE-MI Space-Parametric Study of	University of Michigan	CHECK #1988116	384
	UNIVE-Nano-scale Polymer Composite	University of Michigan	CHECK #1821532	2,500
	UNIVE-R.Bradford-Bone Main in Bears	University of Michigan	CHECK #1821532	5,000
	UNIVE-S.Gray-Attenuation Osteoblast	University of Michigan	CHECK #1821532	2,500
	UNIVE-S.Wojda-Effects of Disuse	University of Michigan	CHECK #1821532	516
	UNIVE-Teachers Field Training	University of Michigan	SPACE GRT CHK 1672756	5,000
	UNIVE-Train Teachers Earth Science	University of Michigan	CHK #1847384	136
	UNIVE-MI Space-Remote Sensing Data	University of Michigan	CHECK #1988116	94
<b>Total National Aeronautics and Space Administration</b>				<b><u>60,090</u></b>
 <b>National Foundation for the Arts</b>				
<b>45.025</b>	<b>Promotion of the Arts-Partnership Agreements (A,B,K)</b>			
	Amer Brass Quintet/Arts Midwest/FPT	Arts Midwest		2,000
	Aquila-Comedy of E/Arts Midwest/FPT	Arts Midwest		2,800
<b>Total National Foundation for the Arts</b>				<b><u>4,800</u></b>
 <b>National Science Foundation</b>				
<b>47.unk</b>	<b>No CFDA Number</b>			
	NATIO-Eng Equity Exten Program Grnt	National Academy of Engineering	CHECK #580465	<u>2,372</u>



**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Pass-through Programs - continued</b>				
<b>Small Business Administration</b>				
<b>59.037</b>	<b>Small Business Development Centers (B,J,K,L)</b>			
	SIXCO-CY09 Tech Bus Dev Reg 1 SBTDC	Six County Employment Alliance-Region 1	CONTRACT AGREEMENT	\$ 10,755
	SIXCO-Tech Business Dev Reg 1 SBTDC	Six County Employment Alliance-Region 1	CONTRACT AGRMT 080127	<u>7,881</u>
<b>Total Small Business Administration</b>				<u><b>18,636</b></u>
<b>US Department of Energy</b>				
<b>81.unk</b>	<b>No CFDA Number</b>			
	LAWRE-PERC-PERC-Partnership	Lawrence Livermore National Security, LLC	PERC AGREEMENT	<u>3,083</u>
<b>US Department of Education</b>				
<b>84.048</b>	<b>Vocational Education_Basic Grants to States</b>			
	MIEDU - YES! Expo 2008	Michigan Department of Education	GRANT #083260-90187	2,000
	MILAB - YES! Expo 2008	Michigan Department of Labor & Economic Growth	PROJECT #9027-7	<u>2,000</u>
				<u>4,000</u>
<b>84.116</b>	<b>Fund for the Improvement of Postsecondary Education</b>			
	NORTH-Brazil Higher Education	North Dakota State University	SUBCONTRACT #12913	15,183
	NORTH-Stipend-Brazil Higher Educ	North Dakota State University	SUBCONTRACT #12913	<u>4,900</u>
				<u>20,083</u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Other Programs (Non-Student Financial Aid) - continued</b>				
<b>Pass-through Programs - continued</b>				
<b>US Department of Education - continued</b>				
<b>84.334</b>	<b>Gaining Early Awareness and Readiness for Undergraduate Programs</b>			
	MILAB-2007-2008 Gear Up	Michigan Department of Labor & Economic Growth	GRANT #07-00-07 YR 2	\$ 11,813
	MILAB-2008-2009 Gear Up	Michigan Department of Labor & Economic Growth	GRANT #07-00-07 YR 3	22,740
				<hr/> 34,553
<b>84.367</b>	<b>Improving Teacher Quality State Grants</b>			
	MIEDU-Deptof Ed-Stats & Probability	Michigan Department of Education	070290-063	18,795
	MIEDU-Div Prg-Stats & Prob	Michigan Department of Education	070290-063	14,088
	MIEDU-Dpt of Ed-Dev Algebraic Thk	Michigan Department of Education	070290-073	12,378
	MIEDU-Ed Opp-Dev Algebraic Thk 2	Michigan Department of Education	070290-073	10,485
	MIEDU-Kalamazoo-Stats & Prob 2	Michigan Department of Education	070290-063	(42)
	MIEDU-EPDIS-Wld Hist & Geography	Michigan Department of Education	080290-109	159,316
	MIEDU-OID-TIIP Teaching Algebra	Michigan Department of Education	GRANT #080290-108	42,424
	MIEDU-Subs-TIIP Teaching Algebra	Michigan Department of Education	GRANT #080290-108	5,225
	MIEDU-TIIP Teaching Algebra	Michigan Department of Education	GRANT #080290-108	49,256
				<hr/> 370,561
<b>Total US Department of Education</b>				
<b>US Department of Homeland Security</b>				
<b>97.017</b>	<b>Pre-Disaster Mitigation (PDM) Competitive Grants</b>			
	MIPOL-Pre-Dstr Mitigat Grant	Michigan Dept of State Police	HAZARD MITIGATION GRNT AGMT	8,119
				<hr/> 1,706,759
<b>Total Other Programs (Non-Student Financial Aid) - Pass-through Programs</b>				
<b>Total Other Programs (Non-Student Financial Aid)</b>				
				<hr/> 4,488,502

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs</b>				
<b>Direct Programs with CFDA Numbers</b>				
<b>US Department of Agriculture</b>				
<b>10.001</b>	<b>Agricultural Research-Basic and Applied Research</b>			
	USAGR-Dev Observ on Pico Mtn	-n/a-	58-3625-5-127 MOD #1	\$ (615)
<b>10.025</b>	<b>Plant and Animal Disease, Pest Control, and Animal Care</b>			
	USAGR-ESC/Emeral Ash Borer Trapping	-n/a-	06-8100-1133-CA	87,307
<b>10.202</b>	<b>Cooperative Forestry Research</b>			
	MS-FFC-BRC-Forest Health/Productivt	-n/a-	MCINTIRE-STENNIS FY08	6,621
	MS-FFC-BRC-Molecular Genetics	-n/a-	MCINTIRE-STENNIS FY08	4,820
	MS-FFC-ESC-Biomass Prod Support	-n/a-	MCINTIRE-STENNIS FY08	3,896
	MS-FFC-ESC-Fire Insect Fungi Ecosys	-n/a-	MCINTIRE-STENNIS FY08	3,617
	MS-FFC-ESC-Harvest Effects	-n/a-	MCINTIRE-STENNIS FY08	6,006
	MS-FFC-ESC-Healing Hardwood Defects	-n/a-	MCINTIRE-STENNIS FY08	5,309
	MS-FFC-ESC-Impacts Elevated CO2 O3	-n/a-	MCINTIRE-STENNIS FY08	3,101
	MS-FFC-ESC-Res Dev For Ecosystems	-n/a-	MCINTIRE-STENNIS FY08	3,969
	MS-FFC-ESC-Trees & Shrubs	-n/a-	MCINTIRE-STENNIS FY08	(667)
	MS-FFC-ESC-Vegetation Dyn GL Reg	-n/a-	MCINTIRE-STENNIS FY08	4,453
	MS-FFC-Forest Map GIS Modelling	-n/a-	MCINTIRE-STENNIS FY08	2,896
	MS-FFC-FY08 Administrative	-n/a-	MCINTIRE-STENNIS FY08	52,851
	MS-FFC-GIS & Boreal Chorus Frogs	-n/a-	MCINTIRE-STENNIS FY08	1,384
	MS-FFC-Invasiv Earthworms Hydrology	-n/a-	MCINTIRE-STENNIS FY08	3,158
				<u>101,414</u>

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs</b>				
<b>Direct Programs with CFDA Numbers</b>				
<b>US Department of Agriculture - continued</b>				
<b>10.206</b>	<b>Grants for Agricultural Research-Competitive Research Grants</b>			
	USAGR/BRC-Genetic Engineering Trees	-n/a-	2005-35103-15256	\$ 43,705
	USAGR-BRC Crbn Nanotubes Bact Arrays	-n/a-	2007-35603-17740	6,507
	USAGR-BRC-Bidirec-Prom Rice Genm	-n/a-	2007-35301-18036	52,623
	USAGR-BRC-Crbn Nanotube Arrays-Bctr	-n/a-	2007-35603-17740	15,512
	USAGR-GRA-BRC-Crbn Nanotube Arrays	-n/a-	2007-35603-17740	9,235
	USAGR-GRA-Functional Gene Discovery	-n/a-	2004-35300-14687	12,549
	USAGR-MITRI-Using RS to Assess NRCS	-n/a-	2006-35615-16717 AMENDMENT 2	4,303
	USAGR-PBC/Functional Gene Discovery	-n/a-	2004-35300-14687	26,000
	USAGR-RS Sensors to NRCS	-n/a-	2006-35615-16717 AMENDMENT 2	123,546
				293,980
<b>10.652</b>	<b>Forestry Research</b>			
	USDA/ESC-Soil Carbon Cycling & Stor	-n/a-	05-CA-11242343-043 MOD #2	25,208
<b>10.664</b>	<b>Cooperative Forestry Assistance</b>			
	USAGR/ESC-Eval Health of Ash Trees	-n/a-	03-CA-11244225-577-MOD NO. A3	7,377
	USAGR/ESC-GRA-Eval Health Ash Trees	-n/a-	03-CA-11244225-577-MOD NO. A3	1,657
	USAGR-ESC-Interactions in Red Pine	-n/a-	05-CA-11244225-153 MOD A1	1,885
				10,919
<b>10.680</b>	<b>Forest Health Protection</b>			
	USAGR-ESC 2007 Ash Damage Grnd Eval	-n/a-	07-CA-11420004-261	17,624
	USAGR-ESC Emerald Ash Rfn Trp Tree	-n/a-	07-CA-11420004-131	10,296
	USAGR-ESC Mdelng Phloem Rmvl fr Ash	-n/a-	05-CA-11244225-296 MOD A2	74,834

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**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs</b>				
<b>Direct Programs with CFDA Numbers</b>				
<b>US Department of Agriculture - continued</b>				
<b>10.680</b>	<b>Forest Health Protection - continued</b>			
	USAGR-ESC/Wood & Bark Infesting Bee	-n/a-	06-CA-11244225-267	\$ 4,030
	USAGR-ESC-07 Emerald Ash	-n/a-	07-CA-11420004-091 MOD A1	(7,489)
	USAGR-ESC-FFC-2008 Sirex Noctilio	-n/a-	08-CA-11420004-238	208,077
	USAGR-ESC-FFC-Ash Inv, Trap & Trtmt	-n/a-	09-CA-11420004-108	29,200
	USAGR-FFC-ESC 08 Svy EAB in WI/NoMI	-n/a-	08-DG-11420004-147	64,400
	USAGR-FFC-ESC-07/09 Em Ash Borr Svy	-n/a-	07-CA-11420004-091 MOD A1	45,904
	USAGR-FFC-ESC-Spnst 2008 MI/WI EAB	-n/a-	08-CA-11420004-239	206,199
	USAGR-Garlic Mustard invasion in Mi	-n/a-	05-DG-11244225-044	103
	USAGR-GRA-Garlic Mustard Invasion	-n/a-	05-DG-11244225-044	(74)
	USFOR-ESC-Emerald AshCatlg Lve Tre	-n/a-	07-CA-11420004-132	17,514
				<hr/> 670,618
<b>10.902</b>	<b>Soil and Water Conservation</b>			
	USAGR-USDA NRCS YR3&4	-n/a-	AGREEMENT # 68-EDC21-3-110	<hr/> (40)
<b>Total US Department of Agriculture</b>				<hr/> <b>1,188,791</b>
<b>US Department of Defense</b>				
<b>12.300</b>	<b>Basic and Applied Scientific Research</b>			
	OFFIC-IEM-Dvlp Hgh Magneto	-n/a-	N00014-07-1-0484	10,485
	OFFIC-Sensing/Tracking MIMO Radar	-n/a-	N00014-09-1-0438	23,881
				<hr/> 34,366

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Defense - continued</b>				
<b>12.630</b>	<b>Basic, Applied, and Advanced Research in Science and Engineering</b>			
	OFFIC-Geostatistical Space	-n/a-	HM1582-07-1-2031	\$ 178,134
<b>12.800</b>	<b>Air Force Defense Research Sciences Program</b>			
	USAIR-DURIP 07 - Microplasma Device	-n/a-	FA9550-07-1-0498	55,378
	USAIR-DURIP 07 -Human Robot Intract	-n/a-	FA9550-07-1-0500	51,401
	USAIR-MuSTI-Yr2-Self Reg Nanotips	-n/a-	FA9550-07-1-0053	19,902
	USAIR-MuSTI-Yr3-Self Reg Nanotips	-n/a-	FA9550-07-1-0053	32,710
	USAIR-Nanostlt Space Sit Awarens	-n/a-	FA9550-07-1-0263	14,275
	USAIR-Yr 2 Nanostlt Space Awareness	-n/a-	FA9550-07-1-0263	44,300
	USAIR-Yr 4-PECASE:-Bismuth	-n/a-	FA9550-05-1-0001 P00006	33,317
	USAIR-Yr5-PECASE: Bismuth	-n/a-	FA9550-05-1-0001 P00006	63,829
	OFFIC-Nanosatellite Calibratn Targ	-n/a-	FA9550-09-1-0273	14,626
				<u>329,738</u>
<b>12.901</b>	<b>Mathematical Sciences Grants Program (B)</b>			
	OFFIC-Combinatorial Designs & Codes	-n/a-	H98230-08-1-0065	<u>28,524</u>
<b>Total US Department of Defense</b>				<u><b>570,762</b></u>
<b>US Department of Interior</b>				
<b>15.224</b>	<b>Cultural Resource Management</b>			
	USBUR-NSSI-Intergov Website Mtce/Op	-n/a-	AGMT NO LAA 08 0008/L08AC14728	<u>65,659</u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Interior - continued</b>				
<b>15.234</b>	<b>Secure Rural Schools and Community Self-Determination</b>			
	USBUR-North Slope Water Charac Prj	-n/a-	L07AC14987 & L08AC13082	\$ 78,677
<b>15.647</b>	<b>Migratory Bird Conservation</b>			
	USFIS-ESC-FFC-Habitat Quality		GRANT AGMT NO 301818G068	19,301
	USFIS-FFC-ESC-Gld Wgd Warbler Hbtat	-n/a-	GRANT AGMT NO. 301818G061	8,976
				<u>28,277</u>
<b>Total US Department of Interior</b>				<u><b>172,613</b></u>
<b>US Department of Transportation</b>				
<b>20.701</b>	<b>University Transportation Centers Program</b>			
	USTRA-MTTI-NSR-MiSTI-2008/09	-n/a-	DTRT06-G-0033 MOD 1	270,623
	USTRA-NSR-MTTI/MiSTI 2006 Spr Funds	-n/a-	DTRT06-G-0033 MOD 1	(16,654)
	USTRA-NSR-MTTI-MiSTI 2006 Spnr	-n/a-	DTRT06-G-0033 MOD 1	71,545
	USTRA-NSR-MTTI-MiSTI-2007	-n/a-	DTRT06-G-0033 MOD 1	97,037
<b>Total US Department of Transportation</b>				<u><b>422,551</b></u>
<b>National Foundation for the Arts</b>				
<b>45.149</b>	<b>Promotion of the Humanities-Division of Preservation and Access</b>			
	NEH-MTU Archives Monitor Disaster R	-n/a-	PG-50268-08	<u>(295)</u>

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.041</b>	<b>Engineering Grants</b>			
	NATIO-I/UCRC Space Power & Propulsn	-n/a-	IIP-0832434	\$ 10,000
	NATIO-MuSTI-CAREER MOLFET	-n/a-	ECCS-0643420	26,434
	NATIO-MuSTI-GRA-CAREER	-n/a-	ECCS-0643420	73,686
	NATIO-NSR-GRA-PERC-Blkot Likelihd	-n/a-	ECS-0501419	34,401
	NATIO-NSR-PERC-Part 2-Rdc Blckt Lik	-n/a-	ECS-0501419	18,943
	NATIO-NSR-PERC-Redc Blackout Liklhd	-n/a-	ECS-0501419	11,237
	NATIO-NSR-PERC-Trvl Rdc Blckt Llhd	-n/a-	ECS-0501419	187
	NSF - CAREER: GRA	-n/a-	CTS-0348058 AMD #002	56,353
	NSF/CISSIC-Electr Engg for Non-EE	-n/a-	EEC-0415962-AMD 002	16,587
	NSF/CISSIC-GRA-Eelctr for Non EE	-n/a-	EEC-0415962-AMD 002	56,440
	NSF/IEM-Nano Magnet Faraday	-n/a-	ECS-0520814 AMD #001	48,804
	NSF/SFI - GRA Rnw Engery Forest Res	-n/a-	BES-0524872	31,559
	NSF/SFI - GRA -Thermoplastic Resins	-n/a-	DMI-0456537 AMD #001	(28)
	NSF/SFI - Renew Energy forest Res	-n/a-	BES-0524872	91,729
	NSF/SFI - Thermoplastic Resins	-n/a-	DMI-0456537 AMD #001	5,192
	NSF/SFI-GRA Renew Energy Forest Res	-n/a-	BES-0524872	131,244
	NSF/SFI-GRA Rnw Energy Forest Res	-n/a-	BES-0524872	58,597
	NSF/SFI-Particpnt Rnw Engry Frst Rs	-n/a-	BES-0524872	10,543
	NSF/SFI-Renew Energy Forestry Res	-n/a-	BES-0524872	14,067
	NSF-APS-MRI Dev Combustion Vessel	-n/a-	CTS-0619585	566,373
	NSF-ASISC-Collab Rsch Cntr Sust Lrn	-n/a-	IIP-0733905	4,538
	NSF-ASISC-Ctr Adv SustainIron/Steel	-n/a-	IIP-0832427	3,695
	NSF-ASISC-Env Benign Iron Manufactu	-n/a-	CBET-0904459	37,773
	NSF-CAREER: Fluid Dynamics	-n/a-	CTS-0348058 AMD #002	26,294



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For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.041</b>	<b>Engineering Grants - continued</b>			
	NSF-CISSIC GRA Scalable Sensor	-n/a-	ECS-0528967	\$ 3,666
	NSF-CISSIC Scalable Crd for Sensor	-n/a-	ECS-0528967	15,204
	NSF-Collab Rsrch Interfacial Istb	-n/a-	CBET-0651790	3,791
	NSF-CWS-Mdl/Analyz Water-Grt Lks	-n/a-	CMMI-0725636	158,137
	NSF-GRA-Collab Rsch Interf Istbl	-n/a-	CBET-0651790	27,141
	NSF-Hands On Ability	-n/a-	EEC-0835987	35,719
	NSF-Hands On Ability - Bohmann	-n/a-	EEC-0835987	22,509
	NSF-Hands On Ability - Helton	-n/a-	EEC-0835987	16,018
	NSF-IEM-REU-Nanomagnetic Faraday	-n/a-	ECS-0520814 AMD #001	106
	NSF-MTTI-Micrstr Asphalt Mtls	-n/a-	CMMI-0701264	36,329
	NSF-MuSTI-CAREER: Gas-Liq Interface	-n/a-	CBET-0748049	24,967
	NSF-MuSTI-NUE: MTU Nanotech Enterpr	-n/a-	EEC-0741490	23,233
	NSF-MuSTI-NUE: MTU Nanotech-Sponsor	-n/a-	EEC-0741490	35,351
	NSF-MuSTI-REU-CAREER: Gas-Liq Intfc	-n/a-	CBET-0748049	1,950
	NSF-NSR-CISSIC- ITR: Mobile Remote	-n/a-	ECS-0427430-AMD 1-3	16
	NSF-NSR-CISSIC-GRA-ITR: Mobile	-n/a-	ECS-0427430-AMD 1-3	20,617
	NSF-NSR-CISSIC-GRA-ITR-Mobile	-n/a-	ECS-0427430-AMD 1-3	1,178
	NSF-NSR-CISSIC-Suppl#4-ITR-Mobile	-n/a-	ECS-0427430-AMD 1-3	18,049
	NSF-Partic Spt-Clab Res Ifacial Ins	-n/a-	CBET-0651790	6,638
	NSF-REU-MTTI-Microstr Asphalt Mtls	-n/a-	CMMI-0701264	5,848
	NSF-SFI-Int Wkshop Auckland Dec 08	-n/a-	CMMI-0824767	5,415
	NSF-SFI-Participant Exp-Auckland 08	-n/a-	CMMI-0824767	4,052
				1,800,582

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.049</b>	<b>Mathematical and Physical Sciences</b>			
	NATIO-GRA Study Heterogeneous Nucl	-n/a-	CHE-0410007-AMD 002	\$ 26,833
	NATIO-NSF-Bound/Continuum Prop L	-n/a-	PHY-0652844	96,640
	NSF/IME-CAREER:Frontier Carbon Mtls	-n/a-	DMR-0447555 AMD # 001	34,791
	NSF/IME-GRA-Frontier Carb	-n/a-	DMR-0447555 AMD # 001	22,214
	NSF-BRC-GRA-Smpl Mthds Oligonucltid	-n/a-	CHE-0647129	24,073
	NSF-BRC-Smpl Mthds Oligonucleotide	-n/a-	CHE-0647129	34,675
	NSF-Exact Inequal & Limit Theorems	-n/a-	DMS-0805946	58,740
	NSF-IME - Heterogeneous Nucleation	-n/a-	CHE-0410007-AMD 002	77,536
	NSF-IME-Algorithms Protein Studies	-n/a-	CHE-0809002	121,957
	NSF-IME-Participnt Algorithms Protn	-n/a-	CHE-0809002	4,400
	NSF-MuSTI-Acq In-Situ AFM/STM-TEM	-n/a-	DMR-0820884	163,712
	NSF-MuSTI-Materials World Network	-n/a-	DMR-0709669	124,503
				790,074
<b>47.050</b>	<b>Geosciences</b>			
	NATIO-RSI-Ozone Photoc	-n/a-	ATM-0720955	43,595
	NSF/RSI-Ultra-Violt Dgtl Camra Volc	-n/a-	EAR-0337120 AMD 003	23,463
	NSF-Acq Sensitive Mag Suscept Syst	-n/a-	EAR-0824559	94,198
	NSF-CWS-Lake Sup Carbon Bal	-n/a-	OCE-0628545	33,761
	NSF-RSI/Midlatitude Lower Free Trop	-n/a-	ATM-0535486 MOD 1-3	53,634
	NSF-RSI/Physical Meteorology Proces	-n/a-	ATM-0554670	95,656
	NSF-RSI-Acq Thermal Camera Volcanic	-n/a-	EAR-0732632	11,288
	NSF-RSI-Ozone Photochemistry	-n/a-	ATM-0720955	60,003
	NSF-RSI-Turbulance-Cloud Interact	-n/a-	ATM-0535488	41,148

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.050</b>	<b>Geosciences - continued</b>			
	NSF-RSI-Turbulence-Cloud	-n/a-	ATM-0535488	\$ 76,010
	NSF-SGER: In-Situ Volcanic Plume	-n/a-	EAR-0738956	42,916
	NSF-Virunge Volcanic SO2 Emissions	-n/a-	EAR-0910795	66,398
				<hr/>
				642,070
				<hr/>
<b>47.070</b>	<b>Computer and Information Science and Engineering</b>			
	CAREER: GRA Future Level Parall	-n/a-	CCF-0347592-AMD 003	37,960
	NATIO-CISSIC-CAREER-RealTime Robust	-n/a-	CNS-0644056	26,272
	NATIO-CISSIC-Enterprise Real Time	-n/a-	CNS-0644056	1,373
	NATIO-CISSIC-GRA-Real Time Robust	-n/a-	CNS-0644056	34,002
	NSF/CISSIC-CAREER:Signal Proces Rsc	-n/a-	CCR-0238174-AMD 002	34,462
	NSF/CISSIC-CAREER-GRA-Signal Proces	-n/a-	CCR-0238174-AMD 002	34,341
	NSF/CISSIC-REU - Signal Proces Rsch	-n/a-	CCR-0238174-AMD 002	1,806
	NSF-CAREER:Future Level Parallelism	-n/a-	CCF-0347592-AMD 003	11,147
	NSF-CAREER:Memory Controller	-n/a-	CCF-0133777-AMD 004	17,666
	NSF-CISSIC/CSR-EHS:Embedded Body Ne	-n/a-	CNS-0720781	3,460
	NSF-CISSIC-REU-CSR-EHS: Embed Netwk	-n/a-	CNS-0720781	4,847
	NSF-CPA-CPL: Fdbk-Dir Rsrc Mgmt VPM	-n/a-	CCF-0811427	44,068
	NSF-CSERI-Part Glbl Adrs Space Lang	-n/a-	CCF-0833082	54,156
	NSF-GRA-CAREER:Memory Controller	-n/a-	CCF-0133777-AMD 004	7,775
	NSF-GRA-Resp Conduct in Research	-n/a-	IIS-0832922	13,587
	NSF-MuSTI-CAREER-Giga Scale Models	-n/a-	CCF-0845284	3,029
	NSF-MuSTI-SGER: Data-Parallel Techn	-n/a-	IIS-0840666	61,800

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.070</b>	<b>Computer and Information Science and Engineering - continued</b>			
	NSF-Resp Conduct Rsch - Drummer	-n/a-	IIS-0832922	\$ 19,364
	NSF-Resp Conduct Rsch - Holles	-n/a-	IIS-0832922	14,249
	NSF-Resp Conduct Rsch Sci & Eng Ed	-n/a-	IIS-0832922	2,328
	NSF-REU-CAREER:Memory Controller	-n/a-	CCF-0133777-AMD 004	1,481
	NSF-REU-Sustainbl Undergrad Comp Ed	-n/a-	CNS-0829619	8,800
	NSF-SFI-Int Sust Undergrad Comp Ed	-n/a-	CNS-0829619	37,673
				<hr/> 475,646
<b>47.074</b>	<b>Biological Sciences</b>			
	NSF/BRC-Glycoside Metab	-n/a-	DBI-0421756 AMD 001-5	265
	NSF/ESC-Interactions Wolves/Moose	-n/a-	DEB-0424562-AMD 001-4	69,433
	NSF/ESC-Nitrogen Satur/Altered Eco	-n/a-	DEB-0315138-AMD 003	32
	NSF-BRC/REU-Phenolic Glyco	-n/a-	DBI-0421756 AMD 001-5	(390)
	NSF-ESC-FFC-FNR-REU-Resp Nitrate Dp	-n/a-	DEB-0814864	2,609
	NSF-ESC-FFC-Response to Nitrate Dep	-n/a-	DEB-0814864	16,808
	NSF-ESC-FFC-Yellowstone Wolves	-n/a-	DEB-0613730	113,849
	NSF-GRA-Nitrogen Satuation	-n/a-	DEB-0315138-AMD 003	6,318
	NSF-PBC/CAREER:Cellulose Biosynthes	-n/a-	IBN-0236492-AMD 003	42,402
	NSF-PBC-GRA Cellulose Biosynthesis	-n/a-	IBN-0236492-AMD 003	21,969
				<hr/> 273,295

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.075</b>	<b>Social, Behavioral, and Economic Sciences</b>			
	NSF - PhD Prgm Industr'l Archeology	-n/a-	SES-0454711 AMEND 01	\$ 63,771
	NSF-Doc Diss Rsch: Copper Smlt Hrtg	-n/a-	SES-0823161	7,910
	NSF-SHOT Workshop	-n/a-	SES-0623056	130
				<hr/>
				71,811
				<hr/>
<b>47.076</b>	<b>Education and Human Resources</b>			
	NSF - GSE/RES - Participant Support	-n/a-	HRD-0429020-AMD 003	1,843
	NSF - GSE/RES Removing Barriers	-n/a-	HRD-0429020-AMD 003	11,795
	NSF-BRC-Lab in Biomolecular Chem	-n/a-	DUE-0837220	29,701
	NSF-First Year IDEAS Modules & Cntr	-n/a-	DUE-0836861	7,361
	NSF-IGERT/SFI-Participant	-n/a-	DGE-0333401-AMD 009	125
	NSF-IGERT/SFI-Sustain Futures Model	-n/a-	DGE-0333401-AMD 009	309,106
	NSF-IIS-Valid Assessment Procedures	-n/a-	DUE-0817445	3,179
	NSF-Implement-Service-Systems-Eng	-n/a-	DUE-0618537	40,174
	NSF-Participant Exp-GSE/RES Removng	-n/a-	HRD-0429020-AMD 003	5,004
	NSF-SFI IGERT-Chem Eng Participant	-n/a-	DGE-0333401-AMD 009	87,335
	NSF-SFI IGERT-Civil Eng Participant	-n/a-	DGE-0333401-AMD 009	123,448
	NSF-SFI IGERT-Mech Eng Participant	-n/a-	DGE-0333401-AMD 009	160,788
	NSF-SFI-Particpnt Exp- Summit in DC	-n/a-	DUE-0848636	24,973
	NSF-SFI-Summit in Washington, DC	-n/a-	DUE-0848636	4,129
	NSF-SFI-Tools/Strat Sustn Integn	-n/a-	DUE-0716599	44,615
	NSF-Spnsr-Implement Curric ser Syst	-n/a-	DUE-0618537	59,543
				<hr/>
				913,119
				<hr/>

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**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>National Science Foundation - continued</b>				
<b>47.078</b>	<b>Polar Programs</b>			
	NSF-Participant Exp-Ind Arch Arctic	-n/a-	ARC-0804290	\$ 387
	NSF-SGER: Ind Archaeology in Arctic	-n/a-	ARC-0804290	18,499
				<hr/> 18,886
<b>47.079</b>	<b>International Science and Engineering</b>			
	NATIO-SFI-US-Egypt;Rice-Waste Reinf	-n/a-	OISE-0608608	3,116
	NSF/RSI-Participant Rmt Sn Lat Amer	-n/a-	OISE-0530109	37,221
	NSF/RSI-Remte Sen Pac Lat Amer	-n/a-	OISE-0530109	453,208
	NSF-SFI-International Rsch Exp	-n/a-	OISE-0623558	13,343
	NSF-SFI-Part Exp.-Int Rsch Exp	-n/a-	OISE-0623558	18,032
				<hr/> 524,920
<b>47.082</b>	<b>Trans-NSF Recovery Act Research Support</b>			
	ARRA-NSF-SFI-Public Health Tanzania	-n/a-	OISE-0854050	307
				<hr/> 5,510,710
<b>Total National Science Foundation</b>				
<b>US Environmental Protection Agency</b>				
<b>66.515</b>	<b>Greater Opportunities: Research Program</b>			
	USENV/MuSTI-Biocide Leaching	-n/a-	GR-832371010-0	73,059
<b>US Department of Energy</b>				
<b>81.049</b>	<b>Office of Science Financial Assistance Program</b>			
	USENE-BRC YR2 Genetic Mod Gibberell	-n/a-	DE-FG02-05ER64109 A001,2	(4,803)

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Energy - continued</b>				
<b>81.049</b>	<b>Office of Science Financial Assistance Program - continued</b>			
	USENE-BRC-FFC-Yr3-Poplar Root Dev	-n/a-	DE-FG02-06ER64151	\$ 95,612
	USENE-BRC-YR2 Poplar Rt Dv	-n/a-	DE-FG02-06ER64151	175
	USENE-ESC-FFC-Yr1-Midwest Center	-n/a-	DE-FC02-06ER64158 AMEND #A005	56,631
	USENE-ESC-FFC-Yr2-Midwest Cntr Clmt	-n/a-	DE-FC02-06ER64158	100,351
	USENE-ESC-FFC-Yr3-Midwest Cntr Clmt	-n/a-	DE-FC02-06ER64158	148
	USENE-ESC-FFC-Yr9 Op/Decm Aspen FAC	-n/a-	DE-FG02-95ER62125-AMD A019	221,034
	USENE-ESC-Yr 7-Aspen Face II	-n/a-	DE-FG02-95ER62125-AMD A019	290,584
	USENE-ESC-Yr1-Midwest Cntr Climate	-n/a-	DE-FC02-06ER64158	29,765
	USENE-ESC-Yr8-Op/Decom	-n/a-	DE-FG02-95ER62125-AMD A019	878,059
	USENE-MuSTI-ADV ACCT-Yr 2-Hetero	-n/a-	DE-FG02-06ER46294 A001, A002	81,188
	USENE-Yr 3-BRC-Genetic Mod Gibberel	-n/a-	DE-FG02-05ER64109 A001,2	26,689
				<hr/> 1,775,433
<b>81.086</b>	<b>Conservation Research and Development</b>			
	USENE-PBC-Genetic Manipulation	-n/a-	DE-FC36-03ID14440-AMD A001-8	<hr/> 21,738
<b>81.087</b>	<b>Renewable Energy Research and Development</b>			
	USENE-APS-Hydrogen Ed Curriculum	-n/a-	DE-FG36-08GO18108	97,710
	USENE-IMP-GRA CS-Perhydride-Hydrogn	-n/a-	DE-FG36-05GO15003 A003	(3,371)
	USENE-IMP-Perhydride Hydro	-n/a-	DE-FG36-05GO15003 A003	<hr/> 223,513
				<hr/> 317,852

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**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Energy - continued</b>				
<b>81.089</b>	<b>Fossil Energy Research and Development</b>			
	USENE-Recover Hydrocarbons	-n/a-	DE-FC26-06NT42931	\$ 67,439
	USENE-TSAF-Yr 3 Crosswell Sesmis	-n/a-	DE-FC26-04NT15508-AMD A005	7,161
	USENE-TSAF-YR2 GRA/Croswell Seismic	-n/a-	DE-FC26-04NT15508-AMD A005	10,053
				<u>84,653</u>
<b>Total US Department of Energy</b>				<b><u>2,199,676</u></b>
<b>US Department of Education</b>				
<b>84.116</b>	<b>Fund for the Improvement of Postsecondary Education</b>			
	USEDU-CWS/YR 4-ExCit: Expand Cities	-n/a-	P116N030005-04-ACTION NO. 04	1,518
	USEDU-CWS-YEAR1-ExCit:Expand Cities	-n/a-	P116N030005-04-ACTION NO. 04	(1,599)
<b>Total US Department of Education</b>				<b><u>(81)</u></b>
<b>US Department of Health and Human Services</b>				
<b>93.172</b>	<b>Human Genome Research</b>			
	NIH-BRC-YR 3-GRA-Stat-Mthds-Admix	-n/a-	1 R03 HG003613-01-03	<u>8,480</u>
<b>93.279</b>	<b>Drug Abuse and Addiction Research Programs</b>			
	NIH-YR 1-Short Lived Radicals	-n/a-	1 R01 DA017201-01A1-03	3,543
	NIH-YR 2-GRA-Short Lived Radicals	-n/a-	1 R01 DA017201-01A1-03	31,976
	NIH-YR 2-Short Lived Radicals	-n/a-	1 R01 DA017201-01A1-03	31,543
	NIH-Yr 3-Indent-Short-Lvd Tobacco	-n/a-	1 R01 DA017201-01A1-03	46,353
				<u>113,415</u>



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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Health and Human Services - continued</b>				
<b>93.286</b>	<b>Discovery and Applied Research for Technological Innovations to Improve Human Health</b>			
	NIH/BRC In-Situ Biliary Manometer	-n/a-	1 R15 EB008883-01A1	\$ 54,702
<b>93.701</b>	<b>Trans-NIH Recovery Act Research Support</b>			
	ARRA-NIH-BRC-Dev Biomats Spinal Cd	-n/a-	1 R21 NS062392-01A1	16,900
<b>93.837</b>	<b>Cardiovascular Diseases Research</b>			
	NIH-BRC-VEGF-C Intrstitial Flow	-n/a-	1 R15 HL093705-01	119,334
<b>93.839</b>	<b>Blood Diseases and Resources Research</b>			
	NIH-BRC-Fish Oil & Neurovasclr Ctrl	-n/a-	1 R15 HL088689-01A1	83,804
<b>93.846</b>	<b>Arthritis, Musculoskeletal and Skin Diseases Research</b>			
	NIH/BRC - Meniscal Horn Attachment	-n/a-	1 R15 AR051906-01	(2,618)
	NIH/BRC-GRA-Meniscal Horn Attachmnt	-n/a-	1 R15 AR051906-01	8,381
	NIH-BRC/Black Bear Bones YR 4	-n/a-	1 R15 AR050420-03	8,896
	NIH-BRC/Black Bear Bones YR 5	-n/a-	1 R15 AR050420-03	48,709
	NIH-BRC-YR 2/Augmentat Lymphangio	-n/a-	1 R21 AR053094-01A1-02	25,073
	NIH-BRC-Yr6-Bone Remodel/Mech Bears	-n/a-	1 R15 AR050420-03	15,878
				<u>104,319</u>
<b>93.859</b>	<b>Biomedical Research and Research Training</b>			
	NIH-BRC Molecular Recognition PB1	-n/a-	1R15GM076055-01A2	40,316
	NIH-BRC/Yr 3 GRA Mapping Disease	-n/a-	1-R01 GM069940-01A2,02 & 03	8,096

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with CFDA Numbers - continued</b>				
<b>US Department of Health and Human Services - continued</b>				
<b>93.859</b>	<b>Biomedical Research and Research Training - continued</b>			
	NIH-BRC/Yr 3 Mapping Disease Genes	-n/a-	1-R01 GM069940-01A2,02 & 03	\$ 97,971
	NIH-BRC-GRA-Molec Recognition PB1	-n/a-	1R15GM076055-01A2	<u>17,872</u>
				<u>164,255</u>
<b>93.865</b>	<b>Aging Research</b>			
	NIH-BRC-Treat Spinal Cord/Hydrogel	-n/a-	1R15HD061096-01A2	<u>35,304</u>
<b>Total US Department of Health and Human Services</b>				<u><b>700,513</b></u>
<b>Total Research and Development Programs - Direct Programs with CFDA Numbers</b>				<u><b>10,838,299</b></u>
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Department of Agriculture</b>				
<b>10.025</b>	<b>Plant and Animal Disease, Pest Control, and Animal Care (B)</b>			
	UNIVE-CISSIC-Eval Foam Poultry Depo	University of Georgia	RE-683-051/3843458	<u>16,612</u>
<b>10.206</b>	<b>Grants for Agricultural Research_Competitive Research Grants</b>			
	UNIVE-BRC-Physcomitrella	University of Rhode Island	AGREE 090607/0001516	<u>33,963</u>
<b>10.219</b>	<b>Biotechnology Risk Assessment Research</b>			
	ORGE0-BRC-Fld Evl Semi-Dwarf	Oregon State University	SUBGRANT #C0306A-A	<u>46,602</u>
<b>Total US Department of Agriculture</b>				<u><b>97,177</b></u>

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<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Department of Commerce</b>				
<b>11.405</b>	<b>Anadromous Fish Conservation Act Program</b>			
	MIDNR-YR2-CWS-Ontonagon River	MI Department of Natural Resources	751B7200002	\$ <u>5,650</u>
<b>US Department of Commerce - continued</b>				
<b>11.417</b>	<b>Sea Grant Support</b>			
	MICHI-RSI-GRAD Sprt-YEAR 1-Ecos Mos	University of Michigan	PO 3000854201	4,241
	MICHI-RSI-SPNS-YEAR 2-Eco Systm Mo	University of Michigan	PO 3000854201	6,900
	REGEN-RSI-Sea Grant FY07 Ship Suppt	Regents of the University of Michigan	PO PO #3000854201	5,010
	UNIVE-RSI-YR2-Ecosystem Mosaic	University of Michigan	PO 3000854201	<u>5,718</u>
				<u>21,869</u>
<b>11.432</b>	<b>Office of Oceanic and Atmospheric Research (OAR) Joint and Cooperative Institutes (B)</b>			
	REGEN-New MODIS Algorithm for Retri	Regents of the University of Michigan	PO #3001042375	<u>1,724</u>
<b>Total US Department of Commerce</b>				<b><u>29,243</u></b>
<b>US Department of Defense</b>				
<b>12.300</b>	<b>Basic and Applied Scientific Research</b>			
	MASSA-CISSIC-Energetic Mat Initiati	Massachusetts Institute of Technology	SUBAWARD #5710002044	<u>146,950</u>
<b>12.800</b>	<b>Air Force Defense Research Sciences Program</b>			
	UNIVE-CISSIC-Adv Imaging & Non Imag	University of Arizona	Y453352-REVISED	<u>63,919</u>
<b>Total US Department of Defense</b>				<b><u>210,869</u></b>

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Department of Interior</b>				
<b>15.608</b>	<b>Fish and Wildlife Management Assistance</b>			
	CORNE-ESC-FFC-Golden Wing Init	Cornell University	52343-8614/CORNELL	\$ 4,478
<b>15.611</b>	<b>Wildlife Restoration</b>			
	MINAT-P4-White Tailed Deer Hemlock	Michigan Department of Natural Resources	PO 751P7200589	12,666
<b>15.815</b>	<b>National Land Remote Sensing-Education Outreach and Research</b>			
	AMERI-Michigan View Consort 2009	AmericaView, Inc.	SUB-AWARD AGRMT AV08-MI01	6,868
<b>Total US Department of Interior</b>				<b>24,012</b>
<b>National Science Foundation</b>				
<b>47.041</b>	<b>Engineering Grants</b>			
	ENDRE-HOLD/STOP WRK-ModlConvct H€ Endres Machining Innovations LLC		SUBCONTRACT	5,643
	MTU-WIMS-GRA Cost Share	University of Michigan	SUBCONTRACT # F004025	202
	UNIVE-ADV ACCT-Sensors Tsk Spnsr	University of Michigan	SUBCONTRACT # F004025	95,987
	UNIVE-IIS-AW-UT Partnership for Inv	Universidad del Turabo	PRIME # IIP-0650285	18,233
	UNIVE-IIS-UT Partnership for Innov	Universidad del Turabo	PRIME # IIP-0650285	13,947
	UNIVE-Nvl Exper/Mdl Nano	University of Illinois at Urbana-Champaign	2005-05374-01-A5790	53,227
	UNIVE-WIMS Edu Tsk Prt Cst	University of Michigan	SUBCONTRACT # F004025	5,919
	UNIVE-WIMS GRA CS	University of Michigan	SUBCONTRACT # F004025	3,080
	UNIVE-WIMS-ADV ACCT-Mcr Tk Spnsr Ac	University of Michigan	SUBCONTRACT # F004025	169,215
	UNIVE-WIMS-ADV ACCT-Sponsor Admin	University of Michigan	SUBCONTRACT # F004025	96,636
				<b>462,089</b>

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CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>National Science Foundation - continued</b>				
<b>47.049</b>	<b>Mathematical and Physical Sciences</b>			
	UNIVE-Deter Electr n Neutn Trtm	University of Texas at Austin	SUB UTA05-849 AMEND #3	\$ 8,250
<b>47.050</b>	<b>Geosciences</b>			
	UNIVE/RSI-GRA-Vir Vol S02 (VISOR)	University of Maryland Baltimore County	SUBAWARD CG0516 AMEND 01	5,046
	UNIVE/RSI-Vi Volcan S02 (VISOR) Prj	University of Maryland Baltimore County	SUBAWARD CG0516 AMEND 01	879
				<u>5,925</u>
<b>47.074</b>	<b>Biological Sciences</b>			
	UNIVE-ESC-FFC-Nitrogen Deposit	University of Nevada-Reno	UNR-07-91/PO 17GC0000097	<u>65,044</u>
<b>47.076</b>	<b>Education and Human Resources</b>			
	UNIVE-H20 Evglade Jny Evaluation	University of Central Florida	AWARD #64016152	28,910
	WESTE-Durab & Gener of Lrn Outcomes	WestEd	WESTED SUBCONTRACT	<u>60,781</u>
				<u>89,691</u>
<b>Total National Science Foundation</b>				<b><u>630,999</u></b>
<b>US Environmental Protection Agency</b>				
<b>66.419</b>	<b>Water Pollution Control State, Interstate, and Tribal Program Support</b>			
	LITTL-CWS-Reg Data Sets FY09 Workpl	Little River Band of Ottawa Indians	AGRMT #081162 PO #29822	<u>15,881</u>
<b>66.454</b>	<b>Water Quality Management Planning</b>			
	MIDEQ-CWS-Huron Creek Watershed	Michigan Department of Environmental Quality	2006-0162	<u>10,063</u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Environmental Protection Agency - continued</b>				
<b>66.606</b>	<b>Water Environment Research</b>			
	WATER-SFI-N Removal & Sustainability	Water Environment Research Foundation	LOA/DEC12U06	\$ 3,682
	WATER-SFI-Removal & Sustainability	Water Environment Research Foundation	LOA/DEC12U06	13,353
<b>Total US Environmental Protection Agency</b>				<b>42,979</b>
<b>US Department of Energy</b>				
<b>81.049</b>	<b>Office of Science Financial Assistance Program</b>			
	UNIVE-ESC-FFC-Elvtd CO2 & O3	University of Nevada-Reno	UNR-08-15 AMEND-1	86,996
	USPTE-IMP-Syngas & Steel Concurrent	UP Steel	MTU AGREEMENT 071137	21,791
	ZSEIS-TSAF-Crosswell Elseismic Imag	Z-Seis Corporation	PO #2008-762 MTU # 071140	19,960
				<b>128,747</b>
<b>81.087</b>	<b>Renewable Energy Research and Development</b>			
	CONSO-BRC-Mod Cellulose Crystal	Consortium Plant Biotechnology Research Inc	CPBR AGRMT # GO12026-249	4,673
	CONSO-BRC-Spnsr-Protein Eng Phenyl	Consortium Plant Biotechnology Research Inc	CPBR AGMT #GO12026-262 AMDMT A	(68)
	CONSO-FFC-BRC-Genetic Master Swtchs	Consortium Plant Biotechnology Research Inc	AGMT #G012026-269	75,501
	ROCHE-MuSTI-GRA-Visual Fuel Cell	Rochester Institute of Technology	30672-01	296
	ROCHE-MuSTI-Visual Fuel Cell	Rochester Institute of Technology	30672-01	230,793
				<b>311,195</b>
<b>Total US Department of Energy</b>				<b>439,942</b>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Department of Education</b>				
<b>84.116</b>	<b>Fund for the Improvement of Postsecondary Education</b>			
	NORTH-BRC-FFC-Transatl Grad Degree	North Carolina State University	2008-1905-01	\$ 5,595
<b>US Department of Health and Human Services</b>				
<b>93.172</b>	<b>Human Genome Research</b>			
	CASEW-LD Mapping	Case Western Reserve University	SUBAWARD #RES502774	3,088
<b>93.233</b>	<b>National Center on Sleep Disorders Research</b>			
	UNIVE-Sleep Disord Breathg	University of Michigan	SUBCONTRACT #F011919 AMD 5	67,298
	UNIVE-Slp Disorder Breathing Chldrn	University of Michigan	SUBCONTRACT #F011919 AMD 5	26,975
				<u>94,273</u>
<b>93.837</b>	<b>Cardiovascular Diseases Research</b>			
	PENNS-MuSTI-Small Blood Pumps	Pennsylvania State University	SUBAWARD #HL060276	22,481
<b>93.847</b>	<b>Diabetes, Digestive, and Kidney Diseases Extramural Research</b>			
	PROTE-BRC-BI Br PH as Anabol Bone A	Proteos Inc	PROTEOS PO #1994	61,624

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with CFDA Numbers</b>				
<b>US Department of Health and Human Services - continued</b>				
<b>93.865</b>	<b>Child Health and Human Development Extramural Research</b>			
	MAYOM-BRC-YR 3 Microsensr Intramusc	Mayo Clinic Rochester	5R01HD031476-10 MTU	\$ 27,469
	MAYOM-BRC-Yr 4-Microsensr Intramusc	Mayo Clinic Rochester	5R01HD031476-10 MTU	35,145
				<hr/>
				62,614
				<hr/>
				<b>244,080</b>
				<hr/>
				<b>1,724,896</b>
				<hr/>
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number</b>				
<b>US Department of Agriculture</b>				
<b>10.unk</b>	<b>No CFDA Number</b>			
	USAGR-ESC-FFC-Red Pine Thinning	-n/a-	09-JV-11242307-009 MOD 1	4,291
	MS-ADV ACCT-BRC-FFC-Cellulose Biosy	-n/a-	ADV ACCT	6,149
	MS-ADV ACCT-BRC-FFC-Gene Discovery	-n/a-	ADV ACCT	6,762
	MS-ADV ACCT-BRC-FFC-Id CIS Elements	-n/a-	ADV ACCT	3,648
	MS-ADV ACCT-ESC-FFC-Carbon Budget	-n/a-	ADV ACCT	6,969
	MS-ADV ACCT-ESC-FFC-Ecohydrological	-n/a-	ADV ACCT	2,949
	MS-ADV ACCT-ESC-FFC-Eft Prescribd F	-n/a-	ADV ACCT	4,890
	MS-ADV ACCT-ESC-FFC-Gap Strategies	-n/a-	ADV ACCT	1,639
	MS-ADV ACCT-ESC-FFC-Geospatial Proc	-n/a-	ADV ACCT	8,103
	MS-ADV ACCT-ESC-FFC-Invasive Earthw	-n/a-	ADV ACCT	4,670
	MS-ADV ACCT-ESC-FFC-Maintng Pos NPI	-n/a-	ADV ACCT	3,252
	MS-ADV ACCT-ESC-FFC-MI Commercial	-n/a-	ADV ACCT	5,974



# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Agriculture - continued</b>				
<b>10.unk</b>	<b>No CFDA Number - continued</b>			
	MS-ADV ACCT-ESC-FFC-Residential Dev	-n/a-	ADV ACCT	\$ 4,062
	MS-ADV ACCT-ESC-FFC-Sugar Maple	-n/a-	ADV ACCT	1,933
	MS-ADV ACCT-FFC-Cellulosic Ethanol	-n/a-	ADV ACCT	4,887
	MS-ADV ACCT-FFC-Fungal Stimulation	-n/a-	ADV ACCT	6,695
	MS-ADV ACCT-FFC-FY09 Admin	-n/a-	ADV ACCT	68,543
	MS-ADV ACCT-FFC-Wolf Moose Populati	-n/a-	ADV ACCT	6,666
	USAGR/ESC-Incr Atmospheric CO2 & O3	-n/a-	03-JV-11231300-053-MOD 1	(573)
	USAGR-07-C/S-Archaelo Coll-Hiawath	-n/a-	05-CS-11091000-021 MOD # 03	1,482
	USAGR-Arch Coll Ottawa Natl Forest	-n/a-	06-CS-11090700-027	641
	USAGR-Carbon/Nitrogen Cycle Rsch.	-n/a-	04-CR-11231300-027-MOD NO. 1	190,136
	USAGR-CWS-SFI-Spsr-Fed Biomass Rmvl	-n/a-	07-JV-11242300-154	12,225
	USAGR-ESC GACS Analysis of Red Pine	-n/a-	RJVA #05-JV-11231300-043MOD1&2	5,877
	USAGR-ESC-Dev Forst Pln Soil Qlty	-n/a-	06-CS-11221662-158	403
	USAGR-ESC-FFC-Carbon H2O & Soils	-n/a-	09-CR-11242306-048	19,302
	USAGR-ESC-FFC-Custer NF Reg 1 Soil	-n/a-	08-CS-11010800-026, MTU#080726	5,297
	USAGR-ESC-FFC-Distgd Ecologist Lect	-n/a-	08-CS-11242306-106	2,500
	USAGR-ESC-FFC-Spnsr-Soil Monitoring	-n/a-	07-CS-11221662-307	73,485
	USAGR-ESC-GRAD Dev Forst Pln Soil Q	-n/a-	06-CS-11221662-158	1,770
	USAGR-ESC-Jck Pine Seedlg Watersmt	-n/a-	SRS 05-CA-11330122-203 AMEND 1	5,687
	USAGR-FFC-Ecolog Unit Map Pacif SW	-n/a-	SUB AGREMNT 07-JV-11052007-227	23,297
	USAGR-FFC-ESC-Analysis of Red Pine	-n/a-	RJVA #05-JV-11231300-043MOD1&2	12,108
	USAGR-FFC-ESC-Fire Impct Wood Dcomp	-n/a-	08-JV-11221633-222	5,297
	USAGR-GRA-Carbon/Nitrogen Cycle Rsc	-n/a-	04-CR-11231300-027-MOD NO. 1	16,648
	USAGR-GRA-Incr Atmospheric CO2/03	-n/a-	03-JV-11231300-053-MOD 1	(113)
	USAGR-Historical/Modern Vegetation	-n/a-	04-PA-11090100-020 MOD 1 & 2	187,169
	USAGR-Inter Fungi Plant Nutr/Grw	-n/a-	07-CR-11242300-056	31,814

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## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Agriculture - continued</b>				
<b>10.unk</b>	<b>No CFDA Number - continued</b>			
	USAGR-MTCWS-Evl Riparian Tmbr Hrvst	-n/a-	07-CR-11242300-048 MOD 1	\$ 7,173
	USAGR-Ottawa Natl Forest Arch	-n/a-	06-CS-11090700-027	836
	USAGR-Sign Guides ATV v UTV	-n/a-	AG-3187-C-09-0016	65,756
	USDA-ESC-FFC-2nd Decade: Aspen FACE	-n/a-	06-JV-11231300-028-MOD 1	37,056
	USDA-FFC:2nd Decade:Oper Aspen FACE	-n/a-	06-JV-11231300-028-MOD 1	798
	USFOR-ESC-2007 Sirex Noctilio	-n/a-	07-CA-1142004-120 MOD A1	18,247
	USFOR-ESC-2007-Sirex Noctilio	-n/a-	07-CA-1142004-120 MOD A1	(39,464)
	USFOR-ESC-FFC-Dev Mthds Restor Fens	-n/a-	07-CS-11021306-026	3,000
	USFOR-ESC-FFC-Restor Fens San Juan	-n/a-	07-CS-11021306-026	1,483
	USNAS-MuSTI-Spnr Multi Grpht Epxy	-n/a-	NNX07AU58A	58,653
<b>Total US Department of Agriculture</b>				<b>900,072</b>
<b>US Department of Defense</b>				
<b>12.unk</b>	<b>No CFDA Number</b>			
	OFFIC/IME/NSR-Nano Center-DARPA	-n/a-	DAAD17-03-C-0115-MOD P00003	82,731
	OFFIC-ADV ACCT-Power Line Comms	-n/a-	ADVANCE ACCOUNT	35,172
	OFFIC-Arctic I&W	-n/a-	HR0011-09-C-0076	70,349
	OFFIC-CISSIC-FNR-Hghly Ing'd Mil	-n/a-	N00421-09-D-0003, DO # 0001	146,525
	OFFIC-CISSIC-Yr1&2-6.1Atmosphrc Sns	-n/a-	W911NF-06-2-0029	534,471
	OFFIC-CISSIC-Yr3-Atmospherc Sensing	-n/a-	W911NF-06-2-0029	149,823
	OFFIC-FNR-Boatview	-n/a-	HR0011-09-C-0067	24,532
	OFFIC-FNR-Hghly Ing'd Mil	-n/a-	N00421-09-D-0003, DO # 0001	44,948
	OFFIC-HURRT	-n/a-	W911NF-06-2-0029 MOD NO P00005	219,655
	OFFIC-MRAP Vehicle Protection	-n/a-	P00003 P00004 W911NF-06-2-0029	190,448

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Defense - continued</b>				
<b>12.unk</b>	<b>No CFDA Number - continued</b>			
	OFFIC-MTRI-Yr 3 Atmospheric Sensing	-n/a-	W911NF-06-2-0029	\$ 30,202
	OFFIC-NSR/MuSTI/Infrastructure Dvlp	-n/a-	DAAD17-03-C-0115-MOD P00003	189,785
	OFFIC-NSR/MUSTI/Nano-Center-DARPA	-n/a-	DAAD17-03-C-0115-MOD P00003	5,030
	OFFIC-Power Commun DO#0002	-n/a-	W15P7T-06-D-P228 DO 0002	6,078
	OFFIC-Radar Frequency Sensing	-n/a-	FA8750-05-C-0237 P00007	467,167
	TACOM - SURGE - Work Directive 015	-n/a-	DAAE07-00-C-L052-MOD P00012	1,717
	TACOM-Assured Mb II Rt Clearance	-n/a-	W56HZV-08-C-0525 WD AMMS-003	151,421
	TACOM-Assured Mb II V-Hull Armor	-n/a-	W56HZV-08-C-0525 WD AMMS-004	102,552
	TACOM-Assured Mob VCM Roller Suspen	-n/a-	W56HZV-08-C-0525 WD AMMS-005	48,209
	TACOM-Assured Mobil.-Hvy VCM Roller	-n/a-	W56HZV-08-C-0525 WD AMMS-008	15,562
	TACOM-Assured Mobility LMS WD #AM16	-n/a-	W56HZV-04-C-0643 MOD P00018	(304)
	TACOM-Assured Mobility SPARK W#AM17	-n/a-	W56HZV-04-C-0643 P00013 WD14	493,588
	TACOM-Assured Mobility VPI WD# AM12	-n/a-	W56HZV-04-C-0643 P00010 WD12	22,117
	TACOM-Assured Mobility WD#15 Wire N	-n/a-	W56HZV-04-C-0643 P14WD#15	213,279
	TACOM-Assured Mobility WD#AM-009	-n/a-	W56HZV-04-C-0643 P08 WD#AM-009	71,246
	TACOM-Assured Mobility2-EDEN Device	-n/a-	W56HZV-08-C-0525 WD AMMS-001	720,726
	TACOM-Assured Mobility2-M1 Plw Pmp	-n/a-	W56HZV-08-C-0525 WD AMMS-002	107,406
	TACOM-Assured Mobil-SIM/SID Threat	-n/a-	W56HZV-08-C-0525 WD AMMS-007	22,761
	TACOM-Assured Mobil-VCM Roller Solt	-n/a-	W56HZV-08-C-0525 WD AMMS-010	38,395
	TACOM-Assured Mobil-ATO SPARK Hdwd	-n/a-	W56HZV-08-C-0525 WD AMMS-009	7,851
	TACOM-Assured Mob-VCM Roller Tech	-n/a-	W56HZV-08-C-0525 WD AMMS-006	71,561
	TACOM-Assured WD#15 Wire Neutr1 P16	-n/a-	W56HZV-04-C-0643 P16WD#15	113,760
	TACOM-Assured Mobility SIM WD#AM13	-n/a-	W56HZV-04-C-0643 P12 WD#13	48,835
	TACOM-Surge WD#31 Elastomer (EIP)	-n/a-	DAAE07-00-C-L052 P25 WD#31	5,432
	USAIR-LACOSTE (Ph II)	-n/a-	FA8750-05-C-0237 P00007	162,377

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**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Defense</b>				
<b>12.unk</b>	<b>No CFDA Number - continued</b>			
	USAIR-MTRI-Bistatic RadarSat	-n/a-	FA8750-05-C-0237 P00007	\$ 13,282
	USAIR-MTRI-RadarSet GMTI	-n/a-	FA8750-05-C-0237 P00007	70,327
	USAIR-MTRI-RF Sensing	-n/a-	FA8750-05-C-0237 P00007	360,000
	USAIR-MTRI-Windmill RADAR	-n/a-	FA8750-05-C-0237 P00007	55,252
	USARM-CISSIC/Indirect	-n/a-	W56HZV-07-P-L863	39,633
	USARM-PERC-Powerline Comm	-n/a-	W15P7T-06-D-P228 DO 0002	2,378
	USARM-RF-Counter Sniper	-n/a-	HR0011-06-C-0130	8,759
	USARM-SURGE WD #32 Hybrid Phase 3	-n/a-	DAAE07-00-L052 MOD P00027 WD32	401,542
	USARM-Surge WD#30 Durability Stands	-n/a-	DAAE07-00-C-L052 P24 WD#30	331,820
	USARM-Surge-WD#29 Hybrid Phase II	-n/a-	DAAE07-00-C-L052 P24 WD#29	243,107
<b>Total US Department of Defense</b>				<b>6,141,507</b>
<b>US Department of Interior</b>				
<b>15.unk</b>	<b>No CFDA Number</b>			
	USFIS-Study Coaster Brook Trout	-n/a-	314108M137	56
	USFIS-USFWS Task Order 1	-n/a-	AG#301818J250 TASK#301818T032	10,000
	USPAR/ESC - Wolf-Moose Monitoring	-n/a-	H6000C02000-J631005N004/001&2	49,086
	USPAR-ESC-FFC-Analyze Wtr Isotope	-n/a-	TASK AGMNT J6480070586/0001	3,934
	USPAR-ESC-FFC-Invas Plnts-Pict Rock	-n/a-	H6000082000 TASK J6320080002	34,000
	USPAR-ESC-FFC-Invs Plants-Pict Rcks	-n/a-	H6000082000 TASK J6320080002	1,225

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## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Interior - continued</b>				
<b>15.unk</b>	<b>No CFDA Number - continued</b>			
	USPAR-ESC-FFC-Isotope Analys Use Cg	-n/a-	TASK AGMNT J6480070586/0001	\$ 2,547
	USPAR-ESC-FFC-Wolf Moose Monitoring	-n/a-	H6000C02000-J631005N004/001&2	475
	USPAR-ESC-Impacts of Alum Toxicity	-n/a-	J5460070154/0003	19,116
	USPAR-Exotic Plant Species Gr Lakes	-n/a-	HC6000C02000 - J2105040050	5,833
	USPAR-FFC-IRI-Prev Spread VHS fr BW	-n/a-	H6000082000 TASK J631008A028	25,000
	USPAR-IRI/Electronic Research Libra	-n/a-	H6000C02000 TSK#J2105060029	1,664
	USPAR-IRI-Isle Royale Institute	-n/a-	H6000C02000-J631004A021/0004	12,303
	USPAR-RSI-Zooplankter Park	-n/a-	H6000082000 TASK J6067080012	52,803
<b>Total US Department of Interior</b>				<b><u>218,042</u></b>
<b>US Department of Transportation</b>				
<b>20.unk</b>	<b>No CFDA Number</b>			
	USTRA-MTTI-Resilient Mod Tsk #2	-n/a-	DTFH61-02-C-00074-TSK #2	122,337
	USTRA-MTTI-Taking Action-Traffic Sf	-n/a-	DTFH61-07-P-00241	30,257
<b>Total US Department of Transportation</b>				<b><u>152,594</u></b>
<b>National Aeronautics and Space Administration</b>				
<b>43.unk</b>	<b>No CFDA Number</b>			
	NASA/RSI - Ice Nucleation	-n/a-	NNG04GR41G SUPPL 1	39,152
	NASA-GRA-Ice Nucleantion of Org Cmp	-n/a-	NNG04GR41G SUPPL 1	9,550
	USNAS/RSI-Picture 2003	-n/a-	NNG04GG99G-SUPPLEMENT 1-4	(3,471)

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## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>National Aeronautics and Space Administration - continued</b>				
<b>43.unk</b>	<b>No CFDA Number - continued</b>			
	USNAS-Carbon Emissions fr Wildfire	-n/a-	NNX08AK69G	\$ 213,393
	USNAS-CSERI-Pic of the Day	-n/a-	NNX09AD32G	42,102
	USNAS-Est Emission Volcanogenic SO2	-n/a-	NNX08AF80G	97,244
	USNAS-GRA-Picture of Day 2003	-n/a-	NNG04GG99G-SUPPLEMENT 1-4	22,903
	USNAS-MTRI-Assessment of Biomass	-n/a-	NNG04GR47G	1,330
	USNAS-NSR-APS-GRA-Micro Gravity	-n/a-	NNC04GB52G-SUPPL NO. 1-4	24,922
	USNAS-NSR-APS-Micrograv Terrest Env	-n/a-	NNC04GB52G-SUPPL NO. 1-4	78,237
	USNAS-RSI/Quantify Volcanic Emiss	-n/a-	NNG04GJ67G SUPPL 2	(249)
	USNAS-RSI-Biomass Burn	-n/a-	NNX07AR26G	86,487
	USNAS-RSI-Biomass Burning	-n/a-	NNX07AR26G	63,319
<b>Total National Aeronautics and Space Administration</b>				<b>674,919</b>
<b>National Science Foundation</b>				
<b>47.unk</b>	<b>No CFDA Number</b>			
	NATIO-NSF-CAREER-Model-Nxt-Gen-Sys	-n/a-	CCF-0643664	26,374
	NATIO-NSF-GRA-CAREER-Mdl-Nxt-Gen	-n/a-	CCF-0643664	23,593
	NSF-Morph/Stab/Paleoint W Australia	-n/a-	EAR-0711453	4,000
	NSF-Morph/Stability/Paleointensity	-n/a-	EAR-0711453	112,735
	NSF-MTTI-DRU Collaborative Research	-n/a-	SES-0624118	38,544
	NSF-MTTI-REU-DRU Collaborative Rsch	-n/a-	SES-0624118	4,569
	NSF-RSI-Air Snowpack Exch	-n/a-	ARC-0713992	22,891
	NSF-RSI-Air Snowpack Exchanges	-n/a-	ARC-0713992	24,272
	NSF-SFI-Graphics Hdwr Free-Form	-n/a-	CMMI-729280	36,861
<b>Total National Science Foundation</b>				<b>293,839</b>

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### Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Direct Programs with no CFDA Number - continued</b>				
<b>US Department of Energy</b>				
<b>81.unk</b>	<b>No CFDA Number</b>			
	USENE-CNLM-Allen-Ctr Rsch Nano Mtl	-n/a-	DE-FG36-08GO88104	\$ 64,101
	USENE-CNLM-Center Rsch Nano Mtl	-n/a-	DE-FG36-08GO88104	298,447
	USENE-CNLM-Ctr Rsch Nano Mtl	-n/a-	DE-FG36-08GO88104	393,637
	USENE-CNLM-GRA-Ct Rsch Nano	-n/a-	DE-FG36-08GO88104	17,231
	USENE-ESC-FFC-Yr 3-Midwest Center	-n/a-	DE-FC02-06ER64158 A005	51
	USENE-ESC-Subs MidW NICCR	-n/a-	DE-FC02-06ER64158 A005	1,566,241
	USENE-ESC-Yr 1&2- Midwest Center	-n/a-	DE-FC02-06ER64158 A005	70,965
	USENE-RSI-Yr 9-High Energy	-n/a-	DE-FG02-99ER41107-AMD A008	(352)
	USENE-RSI-Yr11-High Energy	-n/a-	DE-FG02-99ER41107-AMD A008	38,101
	USENE-SFI-Ctr Rsch Nano Mtl	-n/a-	DE-FG36-08GO88104	(8,857)
	USENE-Yr 10-Hgh Energy Astrophysics	-n/a-	DE-FG02-99ER41107-AMD A008	174,955
<b>Total US Department of Energy</b>				<b><u>2,614,520</u></b>
<b>US Department of Health and Human Services</b>				
<b>93.unk</b>	<b>No CFDA Number</b>			
	NIH/BRC-Mech Stretch & Vein Graft	-n/a-	R15 HL081102-01	2,300
<b>Total Research and Development Programs - Direct Programs with no CFDA Numbers</b>				<b><u>10,997,793</u></b>
<b>Pass-through Programs with no CFDA Numbers</b>				
<b>US Department of Defense</b>				
<b>12.unk</b>	<b>No CFDA Number</b>			
	ACADE-REAP 2008	Academy of Applied Science	SUB 08-43, 08-44	5,066
	BAESY-XT-161 Track Dev	BAE Systems	BAE AGRMT 08-GSD-014	74,389
	BBNTE-Seismological Supt SAVi Prgm	BBN Technologies	BBN TECH AGREEMENT	21,992

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with no CFDA Numbers - continued</b>				
<b>US Department of Defense - continued</b>				
<b>12.unk</b>	<b>No CFDA Number - continued</b>			
	BMTDE-MuSTI-Cr Pnd Ct Sys Spec Deve	BMT Designers & Planners Inc	SC #N00178-04-D-4023-25	\$ 9,713
	BMTDE-MuSTI-Cr Pnd Ctrl Sys Des Dem	BMT Designers & Planners Inc	#N00178-04-D-4023-25 TI039	70,908
	Confidential - MuSTI	BMT Designers & Planners Inc	PO #06-0019 CHANGE #3	45,389
	DCMRS-CISSIC-FNR-Next Gen Sensor	DCM Research Resources, LLC	DCM SUBCONTRACT #005-1	9,719
	DYNET-MYRIAD Task Order 0005 Hybrid	Dynetics, Inc.	DYNETICS PO #PB000802	9,620
	ERCIN-FRC Translation for Space Prp	ERC, Inc.	SUBCONTRACT & PO #RS090332	7,680
	GENER-SRVS	General Dynamics Advanced Information Systems	SUB #200791Y10	32,990
	GEORG-Adv Electromgntc System	Georgia Institute of Technology	SUB #D-5810-S1 AMD 6	89,559
	GEORG-Advanced Electromagnetic Sys	Georgia Institute of Technology	SUB #D-5810-S1 AMD 6	8,500
	GREAT-IMP-Mech Prop Resin-Fiber Com	Great Lakes Composite Institute	CO #070916	3,590
	GSENG-CG Wear Ring Test	GS Engineering	MTU CO & GS CHECK #010690	1,725
	GSENG-Durability Test Nov Dec 2008	GS Engineering	MTU CO & GSE PO #1732	12,175
	GSENG-Multiple Meas Wear Ring Test	GS Engineering	MTU CO & GSE CHECK #010751	2,437
	INTEG-LR Target Id SBIR	Integrity Applications Incorporated	IAI AGREEMENT	21,240
	INTEG-RF Tomography IED Threat Redn	Integrity Applications Incorporated	SUBCNTRCT#FA8650-09-M-1549-01	17,058
	JORGE-MuSTI-RTK-GPS Evaluation	Jorge Scientific Corporation	SUB #06-S-3057-270-MT MOD 3	17,482
	LOGOS-FNR-LOGOS STTR	Logos Technologies Inc	LOGOS SUB #08-005 PROJ 209	49,500
	MOTTC-MuSTI-IOFIS Phase 1	Mott Community College	MTU/MCC AGREEMENT	184,694
	SCIEN- Next Gen	Science Applications International Corporation	SUB #4400141917 MOD 3	59,814
	SCIEN- Next Gen Mod 7	Science Applications International Corporation	SUB #4400141917 MOD 3	64,987
	SCIEN-MTRI-DO4	Science Applications International Corporation	SUB #4400149824	120,185
	SCIEN-Visibuilding (VB111)	Science Applications International Corporation	SAIC SUB #4400154387 MOD 3	(72,222)
	SCIEN-Visibuilding (VB111) P2	Science Applications International Corporation	SAIC SUB #4400154387 MOD 3	630,340
	SETCO-MTRI-Constr Sparse Inverse	SET Corporation	SUB #SET-2007-0021	81,747
	TECHN-Bistatic HHR Radar Image Prc	Technology Service Corporation	TSC SUBCONTRACT #201811	21,000
	TELED-CISSIC-EXACTO	Teledyne Scientific Company, LLC	TELEDYNE #G9U572791	75,145



# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with no CFDA Numbers - continued</b>				
<b>US Department of Defense - continued</b>				
<b>12.unk</b>	<b>No CFDA Number - continued</b>			
	UNIVE-CISSIC-Frame/Arch Human Robot	University of Michigan	SUBCONTRACT #3001058153	\$ 120,002
	VIOIN-Develop Wearable POV Vid Sys	V.I.O., Inc.	MTU AGREEMENT 080908	23,479
	CRAFT-MuSTI-Shp Lnchd Aerial Del Sy	Craft Engineering Associates Inc	MTU SBIR AGRMT & PO #X0602	21,027
	GENER - Persistent Sentinel	General Dynamics Advanced Information Systems	GD PO #10163707	22,741
	SRICO-IME-Ferroel Relax Mat'l's	SRICO Inc	PO# 5176	10,721
	SRICO-NSR-IME-Ferroel Relax Mat'l's	SRICO Inc	PO# 5176	60,064
<b>Total US Department of Defense</b>				<b>1,934,456</b>
<b>US Department of Interior</b>				
<b>15.unk</b>	<b>No CFDA Number</b>			
	WISCO-Fish & Wildlife Northern WI 2	Wisconsin Dept of Natural Resources	PO NMH00000321	(3,489)
	WISCO-No Wi Lakes Lakeshore Rest Pr	Wisconsin Dept of Natural Resources	PO #NMI00000117	54,709
<b>Total US Department of Interior</b>				<b>51,220</b>
<b>US Department of Transportation</b>				
<b>20.unk</b>	<b>No CFDA Number</b>			
	MINNE-MTTI-Field Eval Rigid Pv Curl	Minnesota Department of Transportation	CONTRACT #89258 WO NO. 1	22,691
	MITRA-Loc Site Sel MI VII Tst Track	Michigan Department of Transportation	2006-0414 AUTH 14 JOB 88065	60,088
	MITRA-MTTI-Carbon Emsns Rd Constrtn	Michigan Department of Transportation	2006-0414 AUTHOR Z22	41,199
	MITRA-MTTI-Cntr for Structural Dur	Michigan Department of Transportation	2006-0414 AUTHORIZATION 18	39,325
	MITRA-MTTI-Concrete Pvmnts	Michigan Department of Transportation	2003-0063 #20/R1 JOB #101997	2,227
	MITRA-MTTI-Cont Transp Materials Rs	Michigan Department of Transportation	2006-0414 AUTH 13	20,890
	MITRA-MTTI-GRA-Warm Mix Asphalt Evl	Michigan Department of Transportation	2006-0414 AUTH 21	43
	MITRA-MTTI-Hydrated Paste Cement	Michigan Department of Transportation	2006-0414 AUTH 10	66,603

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2009

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with no CFDA Numbers - continued</b>				
<b>US Department of Transportation - continued</b>				
<b>20.unk</b>	<b>No CFDA Number - continued</b>			
	MITRA-MTTI-Recycled Concrete	Michigan Department of Transportation	CONTRACT 2006-0414 AUTH 12	\$ 74,164
	MITRA-MTTI-Superpave Tests	Michigan Department of Transportation	#2006-0414 AUTH 2	98,235
	MISSI-Env Corridor Planning	Mississippi State University	191000-363813-01	59,446
	MITRA-MTTI Dev Test Fine, Course Ags	Michigan Department of Transportation	CONTRACT #2006-0414 AUTH. 8	81,932
	MITRA-MTTI-CS-Dev Test Fine, Course	Michigan Department of Transportation	CONTRACT #2006-0414 AUTH. 8	3,152
	MITRA-MTTI-CSD-PC Box Beam II	Michigan Department of Transportation	2006-0414 AUTH 1, JOB 85098	23,500
	MITRA-Phase II & III TARUT Study	Michigan Department of Transportation	2005-0220 A4	356,816
	NATIO-MTTI-Fly Ash Specs Hwy Concre	National Academies	NAS CONTRACT #HR 18-13 MOD #2	88,192
	OHIOS-Border Crossing & Gateway	Ohio State Univ Research Foundation	PO RF01096863/PJT 60011901	219,482
	OHIOS-Border Crossings & Gateways	Ohio State Univ Research Foundation	PO RF01096863/PJT 60011901	25,658
	UNIVE-MTTI-MModal Grnhse Opt Tmb Sh	University of Wisconsin-Superior	UNIVERSITY #144-051041-4	41,335
<b>Total US Department of Transportation</b>				<b>1,324,978</b>
<b>National Aeronautics and Space Administration</b>				
<b>43.unk</b>	<b>No CFDA Number</b>			
	UNIVE-APSRC-MSGC-Sp-Defl-Det RF Pls	University of Michigan	U OF M MSGC CK #2000433	378
	UNIVE-CHANGES IN FFT P3	University of Maryland, College Park	SUBAWARD NO Z627202 AMEND C	61,822
	UNIVE-CISSIC-Joint Opt Energy	University of Michigan	SPACE GRANT CHK 1672756	-
	UNIVE-Impact of Fire & Insect Dstrb	University of Maryland, College Park	SUBAWARD NO Z638701	14,067
	UNIVE-MISNER: CanSat Development	University of Michigan	CHECK #1805659	2,500

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with no CFDA Numbers - continued</b>				
<b>National Aeronautics and Space Administration - continued</b>				
<b>43.unk</b>	<b>No CFDA Number - continued</b>			
	UNIVE-MSGC-Sp-Launch Veh Vibe Damp	University of Michigan	U OF M CK #2000433	\$ 54
	UNIVE-MSGC-Sp-Microsatel Constelatin	University of Michigan	U OF M CK #2000433	2,625
	UNIVE-Remote Monitoring Changes FFT	University of Maryland, College Park	SUBAWARD NO Z627202 AMEND C	25,281
	UNIVE-Titania Nanotube Sensor	University of Michigan	CHK# 1847384	<u>5,000</u>
<b>Total National Aeronautics and Space Administration</b>				<u><b>111,727</b></u>
<b>US Environmental Protection Agency</b>				
<b>66.unk</b>	<b>No CFDA Number</b>			
	LESKT-IMP-Tailings to Shingles Ph 2	Lesktech, Limited	MTU AGREEMENT #071032	<u>19,321</u>
<b>US Department of Energy</b>				
<b>81.unk</b>	<b>No CFDA Number</b>			
	ARGON-APS-Grad St Res Hydrn IC Eng	Argonne National Laboratory	7F-02021	7,768
	ARGON-APS-Internal Comb Engines	Argonne National Laboratory	SUBCONTRACT #8F-01921 M005	68,595
	ARGON-EcoCAR NeXt Challenge	Argonne National Laboratory	AM SOC FOR ENG ED INC.CK 45152	5,297
	ASPEN-IMP-Ph2 Mmbr H fr Coal Syngas	Aspen Products Group, Inc	SUBCONTRACT DE-FG02-06ER84594	48,702
	LAWRE-PERC-Broadbd over Powerline	Lawrence Livermore National Security, LLC	LLNS SUBCONTRACT #B579701	23,535
	UCHIC-Argonne Guest Gr Appt Yr 3	UChicago Argonne, LLC	SUB #7F-00961 M0002/75-00961	1,957
	UCHIC-MuSTI-Argonne Guest	UChicago Argonne, LLC	SUB #7F-00961 M0002/75-00961	<u>38,149</u>
<b>Total US Department of Energy</b>				<u><b>194,003</b></u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Expenditures of Federal Awards**

**For the Year Ended June 30, 2009**

CFDA Number	Federal Program Name	Pass-through entity	Contract Number	Federal Expenditures
<b>Research and Development Programs - continued</b>				
<b>Pass-through Programs with no CFDA Numbers - continued</b>				
<b>US Department of Education</b>				
<b>84.unk</b>	<b>No CFDA Number</b>			
	UNIVE-Construction Mgmt Year 2	University of Washington	GRANT #477348	\$ 25,023
<b>US Department of Health and Human Services</b>				
<b>93.unk</b>	<b>No CFDA Number</b>			
	MATSY-IEM-Struct Reactive Mtls Chrc	MATSYS Inc.	HDTRA1-07-C-0001 SUBCONTRACT	12,670
	CFDRE-BRC-NP Agts In Vivo Tumor Img	CFD Research Corporation	CDFRC SUBCONTRACT #961	28,280
<b>Total US Department of Health and Human Services</b>				<b>40,950</b>
<b>Total Research and Development Programs - Pass-through Programs with no CFDA Number</b>				<b>3,701,678</b>
<b>Total Research and Development Programs</b>				<b>27,262,666</b>
<b>Grand Total</b>				<b>\$ 66,063,037</b>

MICHIGAN TECHNOLOGICAL UNIVERSITY

Schedule of Findings and Questioned Costs

For The Year Ended June 30, 2009

SECTION I – SUMMARY OF AUDITORS’ RESULTS

Financial Statements

Type of auditors’ report issued: *Unqualified*

Internal controls over financial reporting:

Material weakness(es) identified? \_\_\_\_\_ yes   x   no

Significant deficiency(ies) identified not considered to be material weaknesses? \_\_\_\_\_ 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 not considered to be material weaknesses? \_\_\_\_\_ yes   x   none reported

Type of auditors’ report issued on compliance for major programs: *Unqualified*

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*

<u>CFDA Number(s)</u>	<u>Name of Federal Program or Cluster</u>
84.033, 84.038, 84.063, 84.066, 84.268, 84.375, 84.376	Student financial assistance cluster
Various	Research and development cluster
Dollar threshold used to distinguish between Type A and Type B programs:	<u>\$1,110,272</u>
Auditee qualified as low risk auditee?	<u>  x  </u> yes _____ no

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**Schedule of Findings and Questioned Costs (Concluded)**

**For The Year Ended June 30, 2009**

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**SECTION II – FINANCIAL STATEMENT FINDINGS**

None

**SECTION III – FEDERAL AWARDS FINDINGS**

None

**SECTION IV – SUMMARY OF PRIOR AUDIT FINDINGS**

None

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