
Michigan Technological University

Federal Awards Supplemental Information
June 30, 2025

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Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

Independent Auditor's Report

To the Board of Trustees
Michigan Technological University

We have audited the financial statements of Michigan Technological University (the "University"), a component unit of the State of Michigan, as of and for the year ended June 30, 2025 and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated October 9, 2025, which contained an unmodified opinion on the financial statements. Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the basic financial statements. We have not performed any procedures with respect to the audited financial statements subsequent to October 9, 2025.

The accompanying schedule of expenditures of federal awards is presented for the purpose of additional analysis, as required by Uniform Guidance, 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 information is fairly stated in all material respects in relation to the financial statements as a whole.

Plante & Moran, PLLC

March 25, 2026

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*

Independent Auditor's Report

To Management and the Board of Trustees
Michigan Technological University

We have audited, 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, the financial statements of Michigan Technological University (the "University"), as of and for the year ended June 30, 2025 and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 9, 2025. The financial statements of Michigan Tech Fund, a blended component unit, were not audited in accordance with *Government Auditing Standards*.

Report on 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) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions 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 University'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 or significant deficiencies may exist that were not identified.

Report on 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 financial statements. 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*.

To Management and the Board of Trustees
Michigan Technological University

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 University's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Plante & Moran, PLLC

October 9, 2025

Report on Compliance for Each Major Federal Program and Report on Internal Control Over Compliance Required
by the Uniform Guidance

Independent Auditor's Report

To the Board of Trustees
Michigan Technological University

Report on Compliance for Each Major Federal Program

Opinion on Each Major Federal Program

We have audited Michigan Technological University's (the "University") compliance with the types of compliance requirements identified as subject to audit in the U.S. Office of Management and Budget (OMB) *Compliance Supplement* that could have a direct and material effect on the University's major federal program for the year ended June 30, 2025. The University's major federal program is identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

In our opinion, the University complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on the major federal program for the year ended June 30, 2025.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States (*Government Auditing Standards*); and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). Our responsibilities under those standards and the Uniform Guidance are further described in the *Auditor's Responsibilities for the Audit of Compliance* section of our report.

We are required to be independent of the University and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the University's compliance with the compliance requirements referred to above.

Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules, and provisions of contracts or grant agreements applicable to the University's federal program.

Auditor's Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the University's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the University's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the University's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of the University's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

Report on 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 a 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 *Auditor's Responsibilities for the Audit of Compliance* section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

To the Board of Trustees
Michigan Technological University

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 the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Plante & Moran, PLLC

March 25, 2026

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Student Financial Assistance Cluster					
Department of Education					
Federal Supplemental Educational Opportunity Grants	Direct	84.007	P007A242046	\$ -	\$ 223,323
Federal Work-Study Program	Direct	84.033	P033A242046	-	344,144
Federal Perkins Loan Program	Direct	84.038	N/A	-	2,017,135
Federal Pell Grant Program	Direct	84.063	P063P240234	-	8,349,978
Federal Direct Student Loans	Direct	84.268	P268K250234	-	<u>25,562,860</u>
Total Student Financial Assistance Cluster				-	36,497,440
Research and Development Cluster					
U.S. Department of Agriculture					
Cooperative Forestry Research	Direct	10.202	NI24MSCFRXXXG017	-	202,836
Cooperative Forestry Research	Direct	10.202	NI25MSCFRXXXG021	-	112,605
Passed through University of Nebraska - Lincoln					
Sustainable Agriculture Research and Education	Pass-through	10.215	2023-38640-39573/26-6222-1246-	-	34,650
Agriculture and Food Research Initiative (AFRI)	Direct	10.310	2022-67014-37035	-	160,928
Agriculture and Food Research Initiative (AFRI)	Direct	10.310	2020-67023-31638	-	55,925
Agriculture and Food Research Initiative (AFRI)	Direct	10.310	2023-67022-39754	-	91,684
Passed through Pennsylvania State University					
Agriculture and Food Research Initiative (AFRI)	Pass-through	10.310	S002482-USDA	-	35,794
Passed through the Worcester Polytechnic Institute					
International Agricultural Education Fellowship Program	Pass-through	10.619	11161-GR	-	<u>118,940</u>
Subtotal U.S. Department of Agriculture				-	813,362
U.S. Department of Agriculture - Forest Service					
Geospatial Monitoring for Effective Peatland Management in Central Africa	Direct	10.RD	23-JV-11132762-079	-	29,439
Foundational Science for Sustainable Peatland Management in Central Africa	Direct	10.RD	23-JV-11242306-061	-	2,078
Object-based aggregation of fuel structures, physics-based fire behavior and self-organizing smoke plumes for improved fuel, fire, and smoke management on military lands	Direct	10.RD	21-CR-11221633-152	-	68,188
WFEIS-FuelRX Collaboration	Direct	10.RD	23-CR-11261925-033	-	7,456
Evaluating the Sustainable Production of Engineered Biocarbon for Coal Combustion Residual (CCR) Remediation from Fuel Reduction Treatments in the Superior National Forest (SNF)	Direct	10.RD	24-JV-11111137-107	-	24,148
Response of forest and peatland ecosystems to environmental change - New continuation	Direct	10.RD	22-JV-11242306-037	-	27,877
Estimating Upland Watersheds Risk to Increased Sediment, Ash, and Nutrients Due to Wildfires in the Continental US	Direct	10.RD	20-JV-11221634-214	-	42,359
Decision Support for Forest Soil Carbon Management	Direct	10.RD	23-CR-11242306-022	-	44,098
Continuing KISMA priority invasive species control and outreach with partners and community	Direct	10.RD	22-PA-11090700-003	-	2,137
AIS Prevention for KISMA with boat wash outreach and AIS education	Direct	10.RD	23-PA-11090700-011	-	12,499
Applied Carbon Research and Management	Direct	10.RD	20-CR-11242306-109	-	358
Demonstrate the Durability of Enhanced Domestic Hardwoods for U.S. Army Tactical Trailer Decking	Direct	10.RD	19-JV-11111133-064	-	(1,608)
Enhancing Biological Durability of U.S. Domestic Hardwoods for Tactical Trailer Decking	Direct	10.RD	24-JV-11111133-090	-	34,280
Passed through The Nature Conservancy					
Mapping and Field Verification of Vernal Pools and Streams in Hiawatha	Pass-through	10.RD	#041223-1 / 23-PA-11091000-013	-	48,684
Cooperative Forestry Assistance	Direct	10.664	23-DG-11094200-237	-	110,992
Cooperative Forestry Assistance	Direct	10.664	23-PA-11090700-014	-	17,745
Wood Utilization Assistance	Direct	10.674	23-DG-11094200-251	-	36,766
Forest Health Protection	Direct	10.680	20-DG-11094200-241	-	3,773
Forest Health Protection	Direct	10.680	21-DG-11094200-063	-	12,817
International Forestry Programs	Direct	10.684	22-DG-11132762-346	-	81,859
Partnership Agreements	Direct	10.699	23-CS-11242306-074	-	1,859
Partnership Agreements	Direct	10.699	20-CS-11242306-096	-	9,731
Partnership Agreements	Direct	10.699	20-CS-11242306-119	-	(14,998)
Partnership Agreements	Direct	10.699	22-CS-11242308-035	-	8,317
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	23-JV-11242306-103	-	5,385
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	23-JV-11242306-033	-	7,732
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	21-JV-11242307-050	-	33,493
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	24-JV-11242307-032	39,936	223,850
Infrastructure Investment and Job Act Joint Fire Science Program (Research & Development)	Direct	10.714	24-JV-11242306-034	-	65,531
Infrastructure Investment and Job Act Joint Fire Science Program (Research & Development)	Direct	10.714	24-JV-11242306-040	-	294,894
Infrastructure Investment and Job Act Joint Fire Science Program (Research & Development)	Direct	10.714	24-JV-11242313-072	-	109,206
Infrastructure Investment and Job Act Joint Fire Science Program (Research & Development)	Direct	10.714	22-JV-11242313-089	-	<u>73,677</u>
Subtotal U.S. Department of Agriculture - Forest Service				<u>39,936</u>	<u>1,424,622</u>
Total U.S. Department of Agriculture				39,936	2,237,984

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Commerce - National Institute for Standards and Technology					
Measurement and Engineering Research and Standards	Direct	11.609	70NANB22H13	\$ -	\$ 3,586
Congressionally-Identified Projects	Direct	11.617	60NANB24D27	-	419,967
Science, Technology, Business and/or Education Outreach	Direct	11.620	70NANB23H020	-	245,522
Subtotal U.S. Department of Commerce - National Institute for Standards and Technology				-	669,075
U.S. Department of Commerce - National Oceanic and Atmospheric Administration					
Passed through Mid-Atlantic Fishery Management Council					
2023 Fishery-independent bottom longline survey of the mid-Atlantic golden tilefish stock	Pass-through	11.RD	Agreement signed 10/31/2022	-	11,024
Passed through Great Lakes Observing System					
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS001/YR1-NBN-02	-	649
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS001/YR2-WOB-02	-	82,268
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS030/YR1-02	-	39,538
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS034/YR1-02	-	30,661
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS042/OTT-02	-	111,484
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS098/YR3-HFR-03	-	20,912
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS098/YR3-WOB-01	-	175
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS098/YR4-HFR-04	-	14,953
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	IOOS098/YR5-GLRI-01	-	99,608
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	NA21NOS0120098/IOOS098/YR4-GLR	-	181,851
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	NA21NOS0120098/IOOS098/YR4-NBN	-	95,499
Integrated Ocean Observing System (IOOS)	Pass-through	11.012	Project No. IOOS098/YR3-NBN-21	-	3,773
Ocean Acidification Program (OAP)	Direct	11.017	NA24OARX017C0006-T1-01	-	354,389
Passed through Michigan State University					
Geodetic Surveys and Services					
(Geodesy and Applications of the National Geodetic Reference System)	Pass-through	11.400	RC116011/PRIME NA23NOS4000336	-	48,263
Passed through University of Michigan					
Anadromous Fish Conservation Act Program	Pass-through	11.405	SUBK00020060	-	12,001
Sea Grant Support	Pass-through	11.417	SUBK00016477	-	36,434
Sea Grant Support	Pass-through	11.417	SUBK00020867	11,466	70,019
Sea Grant Support	Pass-through	11.417	SUBK00020868	-	72,040
Passed through Michigan Dept of Environment, Great Lakes, and Energy					
Coastal Zone Management Administration Awards	Pass-through	11.419	Project #: 2024-309-Toolkit MT	39,830	65,160
Coastal Zone Management Estuarine Research Reserves	Direct	11.420	NA22NOS4200058	-	10,355
Climate and Atmospheric Research	Direct	11.431	NA22OAR4310213	87,529	101,654
Passed through University of Michigan					
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00019364	-	9,737
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00022106	-	9,553
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00022270	-	10,091
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00017652	-	146,607
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00019365	-	13,907
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00019366	-	382,561
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00017907	-	105,934
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00020064	-	107,280
National Oceanic and Atmospheric Administration (NOAA)					
Cooperative Institutes	Pass-through	11.432	SUBK00021676	-	84,619
Subtotal U.S. Department of Commerce - National Oceanic and Atmospheric Administration				138,825	2,332,999
Total U.S. Department of Commerce				138,825	3,002,074
U.S. Department of Defense - U.S. Air Force					
Dynamic Feature Sudoku for Target Nominations (Sudoku)	Direct	12.RD	FA875024CB074	-	656,750
Computationally-Driven Next Generation Carbon-Carbon Composite Material Development	Direct	12.RD	FA239424CB014	921,107	1,462,415
Passed through Innovative Scientific Solutions, Inc.					
Aerospace Propulsion Outreach Program: Thrust Reversal	Pass-through	12.RD	SB20297	-	1,046
Aerospace Propulsion Outreach Program: Variable Nozzle Technology	Pass-through	12.RD	Subcontract No. SB20327	-	14,353
Passed through Lincoln Labs MIT					
MITLL ICEX '24 Shakedown Field Support	Pass-through	12.RD	Purchase Order 7000597624	-	1,080
Passed through MTRI Inc.					
Sporadic E Characterization Imputation Anticipation and Localization (SpECIAL)	Pass-through	12.RD	24-0359	-	44,729
Sub-Wavelength All Motions Information (SWAMI) Phase II	Pass-through	12.RD	23-7755-P0002	-	286,196

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided	
				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Defense - U.S. Air Force (Continued)					
Passed through Utah State University Research Foundation					
Aurion nanosatellite development Phase B	Pass-through	12.RD	CP0090829	\$ -	\$ 73,067
Air Force Defense Research Sciences Program	Direct	12.800	FA9550-23-1-0623	-	22,022
Subtotal U.S. Department of Defense - U.S. Air Force				921,107	2,561,658
U.S. Department of Defense - U.S. Army					
BRAVO	Direct	12.RD	W56HZV-19-C-0053 WD 046	559,339	584,502
Fire Control Systems (FCS)	Direct	12.RD	W56HZV-19-C-0053 WD 047	402,548	402,548
Hephaestus's Chariot	Direct	12.RD	W56HZV-19-C-0053 WD 048	-	6,048
Systema	Direct	12.RD	W56HZV-19-C-0053 WD 049	602,089	638,794
Wear Plates & Center Guide Testing Phase 2	Direct	12.RD	W56HZV-19-C-0053 WD 051	-	111,630
GVSP and PdM VPS Stardust	Direct	12.RD	W56HZV-19-C-0053 WD 053	1,790,482	1,844,159
FMTV Steering Reverse Engineering	Direct	12.RD	W912CH-24-C-0038 WD 001	-	436,672
Ground Vehicle Survivability and Protection (GVSP) and Product Manager Vehicle					
Protection Systems (PdM VPS) Stardust (GVSP and PdM VPS Stardust)	Direct	12.RD	W912CH-24-C-0038 WD 003	950,437	987,538
Predictive-Adaptive Mobility (PAM) Prototype	Direct	12.RD	W912CH-24-C-0038 WD 004	167,218	603,852
STEED	Direct	12.RD	W912CH-24-C-0038 WD 009	-	93,252
RAAIT MDR Defense	Direct	12.RD	W912CH-24-C-0038 WD 010	-	135,108
BRAVO	Direct	12.RD	W912CH-24-C-0038 WD 011	568,203	603,349
Systema	Direct	12.RD	W912CH-24-C-0038 WD 013	-	3,911
Hybrid Electrical Vehicle (HEV) High Mobility Multipurpose Wheeled Vehicle (HMMWV) Inverter Integration	Direct	12.RD	W912CH-24-C-0038 WD 016	-	711
MAPS Integration	Direct	12.RD	W56HZV-19-C-0053 WD 038	-	165,426
CASSINO	Direct	12.RD	W56HZV-19-C-0053 WD 018	-	198,410
EHP Roller Software	Direct	12.RD	W56HZV-19-C-0053 WD 037	-	16,676
PDM HTV SUPPORT	Direct	12.RD	W56HZV-19-C-0053 WD 040	-	258,061
Multi-Threat Radar Installations & Characterization (MTRIC)	Direct	12.RD	W56HZV-19-C-0053 WD 045	-	(319)
Anti-Idle Kit Integration	Direct	12.RD	W56HZV-19-C-0053 WD 052	-	605,358
EHP Roller Software	Direct	12.RD	W912CH-24-C-0038 WD 002	-	54,087
Advanced-Layered Soft-Kill System (ALSKS)	Direct	12.RD	W912CH-24-C-0038 WD 005	-	60,532
Anti-Idle Kit Scope	Direct	12.RD	W912CH-24-C-0038 WD 007	-	736,204
M163 EHP Roller Production Support	Direct	12.RD	W912CH-24-C-0038 WD 012	-	30,224
Teleoperated Vehicle	Direct	12.RD	W912CH-24-C-0038 WD 017	-	6,674
Stryker APU	Direct	12.RD	W56HZV-19-C-0053 WD 039	-	34,235
M172A2 25T STLB RAM TEST	Direct	12.RD	W56HZV-19-C-0053 WD 043	-	371,779
PDM HTV Winter Tire Testing	Direct	12.RD	W56HZV-19-C-0053 WD 050	-	12,101
Palletized Loading System (PLS) Wrecker Demo (PDM HTV Support)	Direct	12.RD	W912CH-24-C-0038 WD 006	-	271,191
Enhanced Heavy Equipment Transporter System (EHETS) and Medium Equipment Trailer (MET) Programs	Direct	12.RD	W912CH-24-C-0038 WD 014	-	14,124
M17A2 Trailer Testing Material (25T Trailer Addition)	Direct	12.RD	W912CH-24-C-0038 WD 015	-	63,877
M870A4 Deck Board Assessment of Alternate Wood Species	Direct	12.RD	W912CH-24-C-0038 WD 008	-	131,518
SAR Signature Management	Direct	12.RD	W912HZ23C0022	-	192,992
OPFOR Hierarchical AI for Field Exercises and Training Demonstrations (OHAFT Demos)	Direct	12.RD	W912CG-24-C-0017	-	426,073
Vehicle Integrated Power Kit	Direct	12.RD	W15QKN2599005	82,076	623,337
OPFOR Hierarchical AI for Field Exercises and Training	Direct	12.RD	W912CG-21-C-0016	-	70,178
Passed through American Rheinmetall Vehicles, LLC					
ARV Summer 2024 KRC Test Course	Pass-through	12.RD	Michigan Tech Test Course Lice	-	67,707
Passed through Applied Research in Acoustics LLC (ARIA)					
Verification, Validation, Assurance, and Trust of Machine Learning Models and Data for Safety-Critical Applications	Pass-through	12.RD	#2303035 (Phase II)	-	95,838
Verification, Validation, Assurance, and Trust of Machine Learning Models and Data for Safety-Critical Applications	Pass-through	12.RD	Michigan Tech #2303035	-	52,000
Passed through DornierWorks					
seROS	Pass-through	12.RD	24-0300/PO#000 0000665	-	11,464
Real-Time Density Tracking Distributed Kernel (DTDKF) Method for Realizing Collaborative AI at Extended Ranges	Pass-through	12.RD	Agreement #25-0223	-	19,885
Passed through Helios Remote Sensing Systems					
Soldier-borne Radar Detector	Pass-through	12.RD	1370-S01-HRSSI	-	58,732
Soldier-borne Radar Detector - Phase II	Pass-through	12.RD	1335-S01-HRSSI	-	1,616
Passed through HII Mission Technologies					
Buffalo Wiring Harness TDP and Prototype	Pass-through	12.RD	PO #P000049638	-	26,481
Passed through Ingenium Scientific, Inc					
Molecular Modeling of Carbon-Carbon Materials	Pass-through	12.RD	Subcontract #MTU-2023-001	-	119,646
Passed through MTRI Inc.					
MTRI Inc STTR Ph 2 Support	Pass-through	12.RD	Michigan Tech TCL	-	45,000
Passed through National Center for the Advancement of STEM Education (nCASE)					
ENTERPRISE: Robot Leader Follower Phase 2	Pass-through	12.RD	GRANT W15QKN-20-1-1000	-	4,071
ENTERPRISE: Real Time Strategy Game for Military Commanders Phase 2 and Investigation of VR/AR/XR Technology Applied with Eye and Hand Interaction	Pass-through	12.RD	Agreement #P0001/Grant W15QKN	-	209
Passed through Parsons Government Services, Inc					
Data Collection & Radar Algorithm Development	Pass-through	12.RD	Subcontract No. PO-0017235	-	26,389

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Defense - U.S. Army (Continued)					
Passed through Purdue University					
Quantifying and Understanding the Lake Michigan Shoreline Response Associated with an Extreme Water Level Increase	Pass-through	12.RD	Agreement No. 13001508-021	\$ -	\$ 52,818
Passed through SOSSEC, Incorporated					
Modeling and Algorithm Development for Adaptive Adversarial AI for Complex Autonomy	Pass-through	12.RD	ERDC-MECI-PLA-003	-	53,778
Passed through Stevens Institute of Technology					
Green Remediation of Per - and Polyfluoroalkyl Substances (PFAS) in Soil and Water	Pass-through	12.RD	2103453-01	-	26,855
Passed through Thermoanalytics Inc					
Congressional Add-Electrification 23	Pass-through	12.RD	TAI-24-0220B	-	148,654
Vehicle Testing Task 1	Pass-through	12.RD	W56HZV-24-C-0027/TAI-24-0220A	-	156,124
Passed through University of Alabama-Birmingham					
Independent Engineer Evaluation Test (EET)	Pass-through	12.RD	Confirming Order #24-0666-P0001	-	78,721
Passed through University Of California at San Diego					
Deployment and Recovery of an Experimental Buoy - 2024	Pass-through	12.RD	PO #PUR00762457 LINE #1	-	13,331
Deployment and Recovery of an Experimental Buoy	Pass-through	12.RD	PUR00935222	-	5,641
Estimation, Interpolation and Mapping of Soil Strength by Leveraging Pre-Existing Remotely Sensed Information	Direct	12.RD	W9132T23C0027	100,852	162,454
Basic Scientific Research	Direct	12.431	W911NF-22-2-0066	-	492,633
Passed through University of Southern California					
Basic Scientific Research	Pass-through	12.431	W911NF-23-1-0312 SCON-00006154	-	7,411
Passed through Harvard University					
Basic Scientific Research	Pass-through	12.431	124512-5128561	-	61,700
Basic Scientific Research	Direct	12.431	W911NF2410227	-	21,618
Basic Scientific Research	Direct	12.431	W911NF2410178	-	188,148
Passed through University of Michigan					
Research and Technology Development	Pass-through	12.910	SUBK00017449	-	116,931
Subtotal U.S. Department of Defense - U.S. Army				5,223,244	12,910,667
U.S. Department of Defense - U.S. Navy					
CR-02: Robust Algorithms for Complex Autonomous Robot Systems	Direct	12.RD	N00174-23-1-0003	-	122,364
Passed through Loukus Technologies, Inc.					
Optimized Feedstock Alloy Production for Light Alloy Additive Manufacturing	Pass-through	12.RD	#24-0781 / N00014-23-2-2000	-	2,955
Passed through LIFT Technology					
Michigan Tech Capabilities to Support LIFT's Hypersonic Thermal Research and Material Acceleration-Metallics	Pass-through	12.RD	LIFT Subaward C2007 Phase 2	-	9,654
Passed through EM Photonics, Inc					
Real-time Computational Enhancement of Video Streams	Pass-through	12.RD	Michigan Tech #24-0631	-	43,098
Passed through DornerWorks					
Context Aware Data Stream Pre-processor for Time-Sensitive Applications	Pass-through	12.RD	Michigan Tech #24-0984	-	42,524
Passed through MTRI Inc.					
Low Cost Electronic Warfare Training Unmanned System (LoCEWTUS)	Pass-through	12.RD	MTU AGMT 2306027	-	(1,076)
Passed through Advanced Technology & Research Corporation					
Machine Learning for Condition Based Maintenance	Pass-through	12.RD	103023-23-002 / 47QFCA22Z0030	-	38,429
Ship Vibration Mitigation for Additive Manufacturing Equipment: Phase 2	Pass-through	12.RD	ATR-22-S-103019-01	-	68,607
Passed through Geost, LLC					
Optical Direct Imaging (ODIN) Program Phase II	Pass-through	12.RD	Authorization Dated 02/22/2024	-	(560)
Passed through Texas Biochemicals Inc					
Cost-effective Manufacturing of Nanocomposite Steel Wire for Arresting Gear Purchase Cable	Pass-through	12.RD	24-0665	-	59,056
Passed through Applied Research in Acoustics LLC (ARIA)					
Redesign and Implementation of USDA Proxy Language-Phase II	Pass-through	12.RD	MTU#2102054	-	103,084
Passed through Seatrec, Inc					
Arctic Power Station Field Deployment	Pass-through	12.RD	N6833520C0142	-	31,255
Passed through Great Lakes Sound & Vibration Inc					
GLSV Deep Water Testing	Pass-through	12.RD	Service Order #24-0594	-	17,189
GLSV Deep Water Testing--2025 Field Season	Pass-through	12.RD	Service Order #25-0648	-	122
Basic and Applied Scientific Research	Direct	12.300	N00173-24-2-C001	-	111,835
Basic and Applied Scientific Research	Direct	12.300	N000142412619	-	107,964
Basic and Applied Scientific Research	Direct	12.300	N00014-23-1-2209	-	16,902
Subtotal U.S. Department of Defense - U.S. Navy				-	773,402
U.S. Department of Defense - Defense Advance Research Project					
Statistical Mapping and Geological Information Console	Direct	12.RD	HR0011-23-9-0129	-	404,133
Self-expanding Knowledge Graph Clusters for Organizing Nodes of Economic Sanctions data (SCONES)	Direct	12.RD	HR0011-24-3-0328	-	233,885
Alert for Intervention using Timeseries EMergency Physiological Observations (AI-TEMPO)	Direct	12.RD	HR001124C0339	-	521,052
Passed through BAE Systems					
Toadstool	Pass-through	12.RD	1179564-4 HR001123C0005	-	178,506
Passed through EO Solutions					
Phased Array Laser Predicted Atmospherics Through Intelligent Non-common path Exploitation (PALPATINE)	Pass-through	12.RD	Subcontract #MTUDARP	-	95,925

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Defense - Defense Advance Research Project (Continued)					
Passed through Leidos, Inc.					
Trickshot	Pass-through	12.RD	Subcontract No. P010318245	\$ -	\$ 505,444
Bermuda	Pass-through	12.RD	Subcontract No. P010344452	-	36,095
Providence TA-2	Pass-through	12.RD	Subcontract No. P010244078	-	56,983
Passed through Northrup Grumman Systems Corporation					
Rapid Experimental Missionized Autonomy (REMA) Technical Area 2	Pass-through	12.RD	UCA PO 5300067483	-	753,569
Passed through Teledyne Scientific Company LLC					
DARPA POWER Program	Pass-through	12.RD	PO00178362;PRIME HR00112390065	-	126,331
Alert Warfighter Enablement (AWARE)	Pass-through	12.RD	Subcontract PO00184873	-	1,840
Research and Technology Development	Direct	12.910	HR0011-20-2-0033	422,852	845,507
Research and Technology Development	Direct	12.910	HR0011-24-2-0338	521,098	1,003,655
Research and Technology Development	Direct	12.910	HR0011-24-2-0341	-	697,162
Research and Technology Development	Direct	12.910	HR0011-24-2-0381	85,697	1,392,205
Passed through US Department of Interior					
Research and Technology Development	Pass-through	12.910	1023-009 D23AP00224	-	306,618
Subtotal U.S. Department of Defense - Defense Advance Research Project				1,029,647	7,158,910
U.S. Department of Defense - Defense Threat Reduction					
Passed through Etegent Technologies Ltd					
Synthetic Aperture Radar (SAR) Image Generation Data Augmentation (SIGDA)	Pass-through	12.RD	Subcontract ETE. 120028.00	-	158,647
U.S. Department of Defense					
Passed through Bhawin LLC					
Produce disks of various alloys	Pass-through	12.RD	Service Order #25-0090-P0001	-	6,201
Passed through Collaborative Composite Solutions Corporation					
Metallurgical Engineering and Trades Apprenticeship and Learning (METAL) Program	Pass-through	12.RD	METAL-011	-	224,097
Passed through Expedition Technology Inc.					
Next Generation Electronic Surveillance Technology (NGEST)	Pass-through	12.RD	EXP-25-003	-	251,274
Passed through GS Engineering Inc					
GSE Summer-Fall 2024 Testing	Pass-through	12.RD	Michigan Tech TCL	-	128,926
Passed through Stevens Institute of Technology					
Passed through Leidos, Inc.					
IVY	Pass-through	12.RD	P010252458; PRIME 21-C-2001	-	257,929
Super Trigger	Pass-through	12.RD	Subcontract No. PO10337481	-	98,366
DO NOT SHARE - Ridgeback TO3	Pass-through	12.RD	Subcontract No. P010316615	-	685,312
SPARTA Support	Pass-through	12.RD	Subcontract No. P010342957	-	561,947
SPARTA	Pass-through	12.RD	Subcontract No. PO10276452	-	253,491
Impaler	Pass-through	12.RD	Subcontract No. PO10280109	-	140,101
Passed through LIFT Technology					
Processing and Analyses	Pass-through	12.RD	Task Order #24-0840	-	6,008
Passed through Loukus Technologies, Inc.					
Extrusion tests on 5xxx alloy	Pass-through	12.RD	25-0391 / #MCS2002-22-01	-	5,795
Passed through Manufacturing x Digital					
An OT Cybersecurity Web Portal for Small-to-Medium Manufacturers	Pass-through	12.RD	Award Agreement 22-12-01	28,889	117,804
A Machine-to-X Data Standards Playbook for Manufacturers	Pass-through	12.RD	W911NF2430006	50,000	101,579
Passed through Navistar Defense					
ND Defense LLC 2024 Cold Room Test	Pass-through	12.RD	ND PO #4140-0000068448	-	13,136
Passed through Signature Research Inc					
Signature Res Summer 2025 TCL	Pass-through	12.RD	Michigan Tech TCL #25-0955	-	751
Signature Res Sept '24 TCL	Pass-through	12.RD	Michigan Tech TCL dtd 9/23/24	-	1,550
Signature Res October 2024 TCL	Pass-through	12.RD	Michigan Tech TCL, 10/10/24	-	3,178
Passed through Soar Technology, Inc.					
RL-ICE PHII Expansion	Pass-through	12.RD	SOARTECH #PO-0000211; ID#10543	-	76,357
Passed through Stevens Institute of Technology					
ENTERPRISE: Dry Combat Submersible Atmospheric Monitoring, Conditioning, and Purification Phase 2	Pass-through	12.RD	2102140-02 Prime HQ003419D0003	-	(886)
Enterprise: NSWG 802 Computer-Based Electrical Simulator for Submersible Maritime Platform	Pass-through	12.RD	Subcontract 210339-20/Prime HQ	-	(2,598)
2024 Sub 01 - Electronic Tablet for Submersible Operations	Pass-through	12.RD	Subcontract No. 2103659-11	-	2,644
FMTV A1P2 Door Assist	Pass-through	12.RD	Subcontract No. 2103659-18	-	1,757
Passed through Superior Sustainable Solutions					
Field testing of prototype engineered hardwood lumber of northern species for trailer decking applications (2402)	Pass-through	12.RD	Service Order #24-0783-P0001	-	80,824
Passed through University of Michigan					
Project 3.A119: Development and Application of Friction-Free Bending for Assessment of Material Properties under Complex Loading Conditions	Pass-through	12.RD	SUBK00024379	-	3,320
Subtotal U.S. Department of Defense				78,889	3,018,863
U.S. Department of Defense - National Reconnaissance Office					
Algorithms for De-Aliasing Multi-aperture SAR (ADAMS)					
	Direct	12.RD	NRO000-24-C-0020	-	309,326
Total U.S. Department of Defense				7,252,887	26,891,473

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Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided	
				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Housing and Urban Development					
Healthy Homes Technical Studies Grants	Direct	14.906	MILTS0023-21	\$ 93,006	\$ 163,958
U.S. Department of Interior					
Passed through Navajo Technical University Science and Technology Projects Related to Coal Mining and Reclamation	Pass-through	15.255	NTU-32351-21	-	1,521
U.S. Department of Interior - Bureau of Indian Affairs					
Passed through Keweenaw Bay Indian Community Extent of PFAS Contamination in the Lake Superior Tribal Fishery	Pass-through	15.RD	Services Agreement for 23-0115	-	110,297
U.S. Department of Interior - Fish & Wildlife Service					
Fish and Wildlife Management Assistance	Direct	15.608	F24AC01646-00	-	201,038
Visitor Facility Enhancements - Refuges and Wildlife	Direct	15.654	F24AC00395-00	-	2,846
Passed through Great Lakes Commission Great Lakes Restoration	Pass-through	15.662	Project #4124-01	-	56,990
Cooperative Landscape Conservation	Direct	15.669	F20AC11140-00	-	64,817
White-nose Syndrome National Response Implementation	Direct	15.684	F24AP00985	-	36,050
Subtotal U.S. Department of Interior - Fish & Wildlife Service				-	361,741
U.S. Department of Interior - U.S. Geological Survey					
Passed through Western Michigan University Earth Mapping Resources Initiative	Pass-through	15.073	Subaward No. 11469 G23AC00096	-	57,349
U.S. Geological Survey Research and Data Collection	Direct	15.808	G22AC00436-00	132,573	568,665
U.S. Geological Survey Research and Data Collection	Direct	15.808	G23AC00236-02	-	43,870
U.S. Geological Survey Research and Data Collection	Direct	15.808	G21AC10745-04	1,145	26,577
Passed through Western Michigan University National Cooperative Geologic Mapping	Pass-through	15.810	G23AC00285 / SUB 11576-MTU	-	25,125
Passed through AmericaView National Land Remote Sensing Education Outreach and Research	Pass-through	15.815	AV23-MI-01	-	21,474
Subtotal U.S. Department of Interior - U.S. Geological Survey				133,718	743,060
U.S. Department of Interior - National Park Service					
Monitoring Genetic Health of Isle Royale Wolves	Direct	15.RD	23-0301-P0004	-	22,310
Passed through Pennsylvania State University Protected Areas Research Collaborative (PARC) Listening Lab	Pass-through	15.RD	S006057-NPS	-	49,448
Passed through Grand Portage Band of Lake Superior Chippewa Long-term water quality conditions in sentinel streams at Isle Royale National Park and Grand Portage National Monument	Pass-through	15.RD	Confirming Order #2207015P2	-	12,878
Passed through Institute of Museum & Library Services Save America's Treasures	Pass-through	15.929	ST-256897-OMS-24	-	16,111
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P21AC11836-01	-	15,266
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P19AC00286	-	8,887
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P22AC00193-03	-	11,453
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P20AC00377	-	44,122
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P24AC00220-00	-	28,357
Subtotal U.S. Department of Interior - National Park Service				-	208,832
Total U.S. Department of Interior				133,718	1,425,451
U.S. Department of Transportation - Federal Aviation					
Passed through Iowa State University Comprehensive Analysis and Technical Standards on the Use of a Small Unmanned Aircraft System (sUAS) for Pavement Inspection	Pass-through	20.RD	24-C-GA-ISU / 028271B	-	19,103
Small Unmanned Aircraft System (sUAS) for Pavement Inspection	Pass-through	20.RD	Award # 023139B	-	(4,431)
Subtotal U.S. Department of Transportation - Federal Aviation				-	14,672
U.S. Department of Transportation - Federal Highway					
Autonomous Winter Road Maintenance Decision Making Enabled by Boosting Existing Transportation Data Infrastructure with Deep and Reinforcement Learning	Direct	20.RD	693J320C000022	-	22,667
Passed through Iowa State University Highway Planning and Construction	Pass-through	20.205	Subcontract 029305A	-	15,296
Passed through National Academies Highway Research and Development Program	Pass-through	20.200	HR 19-24	-	111,714
Passed through Minnesota Dept of Transportation Highway Planning and Construction	Pass-through	20.205	Contract No 1036337	-	86,549
Highway Planning and Construction	Pass-through	20.205	Contract No 1036337, WO 5	-	84,096

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Transportation - Federal Highway (Continued)					
Passed through Michigan Dept of Transportation					
Metropolitan Transportation Planning and State and Non-Metropolitan Planning and Research	Pass-through	20.505	2019-0311, AUTH Z1	\$ -	\$ 4,688
Metropolitan Transportation Planning and State and Non-Metropolitan Planning and Research	Pass-through	20.505	2022-0432, AUTH Z2	-	118,026
Metropolitan Transportation Planning and State and Non-Metropolitan Planning and Research	Pass-through	20.505	2019-0311, AUTH Z3	-	84,277
Subtotal U.S. Department of Transportation - Federal Highway				-	527,313
U.S. Department of Transportation - Federal Railroad					
Lightweight evaluation, training, and user collaboration for Human-AI Work Systems in Rail Operations					
	Direct	20.RD	693J624C000036	-	106,662
Expanding Summer Youth Programs in Rail through Virtual Learning and a National Campus Network					
	Direct	20.RD	693J621C000014	108,373	170,110
Railroad Track Maintenance Life-Cycle Assessment (LCA) Development: Framework, Data, Tools, and Implications for Multi-Modal Transport Decisions					
	Direct	20.RD	693J622C000005	76,943	244,767
An Integrated and Automated Decision Support System for Ground Hazard Risk Mitigation for Railway using Remote Sensing and Traditional Condition Monitoring Data					
	Direct	20.RD	693J631C000004	159,996	195,411
A Risk Informed Decision-making Framework for Coastal Railroad System Subjected to Storm Hazards and Sea Level Rise					
	Direct	20.RD	693J622C000006	15,619	241,011
Wire Arc Additive Manufacturing (WAAM) for Weld Enhanced Cast Steel Coupler Knuckles					
	Direct	20.RD	Contract No. 693J622C000001	-	159,001
Passed through University of Texas at Austin					
Guidebook for Railway-themed K-12 STEM Distance Learning Activities	Pass-through	20.RD	SUB00001189 / 693J623C000007	-	9,777
Passed through Virginia Polytechnic Institute and State University					
Multi-Site Simulation to Examine Driver Behavior Impact of Integrated Rail Crossing Violation Warning (RCVW) and In-Vehicle Auditory/Visual Alert (IVAA) System	Pass-through	20.RD	451790-19959	-	71,460
Passed through American Short Line and Regional Railroad Association					
Evaluation of Non-Traditional Methods of Reducing Emission in Short Line Railroad Operations	Pass-through	20.RD	MTU Agreement #2110003	-	8,847
Passed through American ENSCO, Inc					
C-V2X Train Arrival and Departure Information Provision at Active and Passive Grade Crossings - Performance Assessment	Pass-through	20.RD	#G27494-4100 / 693J621D000001	-	229,770
Passed through The Board of Trustees of the University of Illinois					
Railroad Research and Development	Pass-through	20.313	117756-20020	-	80,175
Passed through The University of South Florida Board of Trustees					
Consolidated Rail Infrastructure and Safety Improvements	Pass-through	20.325	8880-0345-00-D/69A36524421030C	-	43,629
Subtotal U.S. Department of Transportation - Federal Railroad				360,931	1,560,620
U.S. Department of Transportation - National Highway Traffic Safety					
Passed through The American Center for Mobility					
Automatic Shut-Off Study on Vehicles Equipped with Keyless Start	Pass-through	20.RD	2022ACM000001	-	200,461
Total U.S. Department of Transportation				360,931	2,303,066
National Aeronautics and Space Administration					
Molecular Modeling of Shrinkage, Strength, and Permeability in Thermoplastic Composites					
	Direct	43.RD	80NSSC24PA420	-	23,260
Passed through Cleveland State University					
CSU Science Vessel Support	Pass-through	43.RD	MTU Service Order #2207026	-	8,773
Passed through Jet Propulsion Laboratory					
SMAPVEX21 Planning and Vegetation Sampling Supplement	Pass-through	43.RD	Subcontract #1718532	-	35,995
SMAPVEX21 Planning and Vegetation Sampling Supplement	Pass-through	43.RD	Subcontract No. 1662109	-	2,219
Passed through MTRI Inc.					
Tool for Autonomous Terrain Exploration of Remote Spaces	Pass-through	43.RD	MTU Agreement 23-1072	-	249,706
Passed through Armentum Space Exploration Group					
Produce Al-Mg-Zr alloy rods	Pass-through	43.RD	Service Order #25-0076-P0002	-	9,619
Produce Al-Cu-Zr alloy rods	Pass-through	43.RD	Service Order #25-0432	-	3,070
Passed through SpaceFactory Inc.					
Regolith Overburden Structures on the Moon: Design and ConOps for Emplaced Protection	Pass-through	43.RD	NASA Prime award 80NSSC23PB578	-	31,423
Passed through Astrobotic Technology, Inc.					
Low-Energy Additive Construction for the Moon and Mars	Pass-through	43.RD	Purchase Order: AT0010563	-	6,118
Passed through APECH Labs LLC					
SBIR Phase II testing for the RILAF (Regolith Immune Linear Actuator Family) program	Pass-through	43.RD	Service Order #24-0514	-	18,798
Passed through Michelin Americas Research & Development Corporation					
LTV testing at MTU	Pass-through	43.RD	Service Order #24-0994	-	184,563
Passed through Lunar Outpost					
Design and Implementation Tools for Lunar Surface Regolith Structure Construction	Pass-through	43.RD	SUB_MTU-LO_NASASTTRPHII-1Mar24	-	281,547
Passed through Dynovas, Inc					
Motorless Extension Leveling Tracking Array System	Pass-through	43.RD	Subcontract/PO No. DYN25-170	-	12,924
Science	Direct	43.001	80NSSC24K0193	9,290	129,220
Science	Direct	43.001	80NSSC22K1234	151,987	349,888
Science	Direct	43.001	80NSSC25K7193	10,390	80,262
Science	Direct	43.001	80NSSC25K7332	-	18,906
Science	Direct	43.001	80NSSC25K7701	-	9,569

See notes to schedule of expenditures of federal awards.

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				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
National Aeronautics and Space Administration (Continued)					
Science	Direct	43.001	80NSSC24K1169	\$ -	\$ 5,685
Science	Direct	43.001	80NSSC20K0983	-	72,964
Science	Direct	43.001	80NSSC20K1773	296,910	299,547
Science	Direct	43.001	80NSSC22K0504	-	27,558
Science	Direct	43.001	80NSSC24K0922	-	36,401
Science	Direct	43.001	80NSSC24K0833	-	95,724
Science	Direct	43.001	80NSSC22K1248	-	262,630
Science	Direct	43.001	80NSSC23K1263	64,743	184,962
Science	Direct	43.001	80NSSC24K0299	51,762	380,888
Science	Direct	43.001	80NSSC25K7211	-	112,530
Science	Direct	43.001	80NSSC24K1479	-	34,600
Science	Direct	43.001	80NSSC21K1162	-	14,139
Science	Direct	43.001	80NSSC22K1665	-	46,595
Science	Direct	43.001	80NSSC22K1716	-	27,280
Science	Direct	43.001	80NSSC23K1540	-	964
Science	Direct	43.001	80NSSC24K1313	-	67,303
Science	Direct	43.001	80NSSC24K1572	-	41,508
Science	Direct	43.001	80NSSC24K0375	48,068	196,560
Science	Direct	43.001	80NSSC24K1691	-	11,925
Science	Direct	43.001	80NSSC20M0223	13,960	28,829
Science	Direct	43.001	80NSSC24K1448	-	27,755
Science	Direct	43.001	80NSSC20K1480	-	107,305
Passed through University of Maryland Baltimore County					
Science	Pass-through	43.001	NASA0123-01	-	51,191
Passed through Regents of the University of Michigan					
Science	Pass-through	43.001	SUBK00022457	-	45,627
Passed through Jet Propulsion Laboratory					
Science	Pass-through	43.001	1696031 PO#1696032	-	53,200
Passed through Purdue University					
Science	Pass-through	43.001	Subaward No. 12000414-017	-	25,106
Passed through Grand Valley State University					
Science	Pass-through	43.001	Subaward No. 214005-MTU-01	-	33,546
Passed through University of Miami					
Science	Pass-through	43.001	80NSSC23K0939 / OS00001395	-	90,157
Aeronautics	Direct	43.002	80NSSC24K0232	-	22,989
Passed through University of Massachusetts - Lowell					
Aeronautics	Pass-through	43.002	Subaward #SS2000000048362	-	25,094
Passed through University of Central Florida					
Exploration	Pass-through	43.003	GR102569 80NSSC19M214	-	21,353
Passed through Texas State University					
Education	Pass-through	43.008	22008-83824-2	-	31,929
Space Technology	Direct	43.012	NNX17AJ32G	326,374	511,497
Space Technology	Direct	43.012	80NSSC21K0769	96,798	142,067
Passed through Colorado School of Mines					
Space Technology	Pass-through	43.012	402157-5802 80NSSC22K0739	-	32,742
Total National Aeronautics and Space Administration				1,070,282	4,626,010
National Endowment for the Humanities					
Passed through Wayne State University					
Promotion of the Humanities Division of Preservation and Access	Pass-through	45.149	WSU25042	-	10,980
National Science Foundation					
IPA with NSF for Melissa Baird					
Intergovernmental Personnel Act Assignment for Jacqueline Huntoon	Direct	47.RD	2445062	-	134,095
- Year 1 of up to 4 Total Years	Direct	47.RD	2233713	-	246,275
Passed through Florida State University					
Extrusion Tests	Pass-through	47.RD	Service Order #25-0024	-	4,403
Engineering	Direct	47.041	2301589	-	29,982
Engineering	Direct	47.041	2348323	-	19,901
Engineering	Direct	47.041	2025449	-	(82)
Engineering	Direct	47.041	2407417	-	28,114
Engineering	Direct	47.041	2212324	-	150,519
Engineering	Direct	47.041	2119019	-	64,654
Engineering	Direct	47.041	2138523	-	5,883
Engineering	Direct	47.041	2301776	-	56,177
Engineering	Direct	47.041	2239080	-	15,669
Engineering	Direct	47.041	2327965	-	198,671
Engineering	Direct	47.041	2224418	-	22,496
Engineering	Direct	47.041	2447809	-	38,167
Engineering	Direct	47.041	2301580	-	33,681
Engineering	Direct	47.041	2347426	-	56,120

See notes to schedule of expenditures of federal awards.

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Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided	
				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
National Science Foundation (Continued)					
Engineering	Direct	47.041	1846795	\$ -	\$ 105,505
Engineering	Direct	47.041	2138522	-	90,435
Passed through University of Washington					
Engineering	Pass-through	47.041	PO #0100034672 / UWSC14054 /	-	70,976
Passed through University of Michigan					
Engineering	Pass-through	47.041	SUBK00012982	-	68,217
Engineering	Pass-through	47.041	SUBK00015030	-	4,085
Passed through Pennsylvania State University					
Engineering	Pass-through	47.041	CBET-2401036 / S005577-NSF	-	26,793
Mathematical and Physical Sciences	Direct	47.049	2203630	-	43,059
Mathematical and Physical Sciences	Direct	47.049	1954041	-	(8,406)
Mathematical and Physical Sciences	Direct	47.049	2118693	-	181,355
Mathematical and Physical Sciences	Direct	47.049	2012944	51,107	137,762
Mathematical and Physical Sciences	Direct	47.049	2209533	-	186,924
Mathematical and Physical Sciences	Direct	47.049	2310013	313,927	415,838
Mathematical and Physical Sciences	Direct	47.049	1944211	-	97,855
Mathematical and Physical Sciences	Direct	47.049	2111359	-	52,609
Mathematical and Physical Sciences	Direct	47.049	2411823	-	104,582
Mathematical and Physical Sciences	Direct	47.049	2108316	-	50,353
Mathematical and Physical Sciences	Direct	47.049	2109949	-	60,681
Geosciences	Direct	47.050	2021768	-	109,353
Geosciences	Direct	47.050	2221730	-	66,459
Geosciences	Direct	47.050	2235515	-	95,954
Geosciences	Direct	47.050	2218518	-	177,318
Geosciences	Direct	47.050	2343844	-	105,595
Geosciences	Direct	47.050	2130739	-	13,805
Geosciences	Direct	47.050	2232216	-	10,373
Passed through Pennsylvania State University					
Geosciences	Pass-through	47.050	S000075-NSF	-	12,004
Geosciences	Direct	47.050	2217182	-	108,202
Geosciences	Direct	47.050	2414775	-	36,244
Geosciences	Direct	47.050	2019649	-	1,975
Geosciences	Direct	47.050	2113060	-	204,123
Geosciences	Direct	47.050	2133229	644,500	1,143,680
Geosciences	Direct	47.050	2220556	-	30,104
Geosciences	Direct	47.050	2425936	-	51,853
Geosciences	Direct	47.050	1914526	-	6,860
Geosciences	Direct	47.050	2438826	-	27,560
Passed through Consortium of Universities for the Advancement of Hydrologic					
Geosciences	Pass-through	47.050	2023 PATHFINDER / EAR-1849458	-	2,431
Passed through Utah State University Sponsored Programs					
Geosciences	Pass-through	47.050	202743-811	-	22,768
Computer and Information Science and Engineering	Direct	47.070	2245712	-	66,340
Computer and Information Science and Engineering	Direct	47.070	2225424	-	284,423
Computer and Information Science and Engineering	Direct	47.070	2153393	-	52,094
Computer and Information Science and Engineering	Direct	47.070	2245670	40,145	128,608
Computer and Information Science and Engineering	Direct	47.070	2203278	-	137,261
Computer and Information Science and Engineering	Direct	47.070	1901005	-	61,283
Computer and Information Science and Engineering	Direct	47.070	2211353	-	153,329
Computer and Information Science and Engineering	Direct	47.070	1750193	-	105,071
Computer and Information Science and Engineering	Direct	47.070	1909089	-	1,551
Computer and Information Science and Engineering	Direct	47.070	1909248	-	(2,231)
Computer and Information Science and Engineering	Direct	47.070	2402876	-	2,929
Computer and Information Science and Engineering	Direct	47.070	2417804	4,326	28,565
Computer and Information Science and Engineering	Direct	47.070	2133279	57,786	84,080
Computer and Information Science and Engineering	Direct	47.070	2151238	-	(3,446)
Passed through Clemson University					
Computer and Information Science and Engineering	Pass-through	47.070	2426318 / 2715-206-2016946	-	28,968
Passed through Kansas State University					
Computer and Information Science and Engineering	Pass-through	47.070	A25-0059-S001	-	16,935
Biological Sciences	Direct	47.074	2430282	-	33,005
Biological Sciences	Direct	47.074	2238540	-	147,942
Biological Sciences	Direct	47.074	1941309	-	230,470
Biological Sciences	Direct	47.074	2011257	-	34,553
Biological Sciences	Direct	47.074	2031076	11,586	43,572
Biological Sciences	Direct	47.074	2141535	-	49,056
Biological Sciences	Direct	47.074	2307284	13,981	145,283
Biological Sciences	Direct	47.074	2306887	-	125,882
Biological Sciences	Direct	47.074	1939399	-	53,756
Biological Sciences	Direct	47.074	2311046	-	38,116

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				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
National Science Foundation (Continued)					
Passed through Baylor University					
Biological Sciences	Pass-through	47.074	#1001076-01 ORD0013797	\$ -	\$ 44,720
Social, Behavioral, and Economic Sciences	Direct	47.075	2009258	7,101	83,645
Social, Behavioral, and Economic Sciences	Direct	47.075	2121875	40,622	46,357
Social, Behavioral, and Economic Sciences	Direct	47.075	2122034	-	38,444
STEM Education (formerly Education and Human Resources)	Direct	47.076	2034833/2437847	-	155,916
STEM Education (formerly Education and Human Resources)	Direct	47.076	2244403	-	103,519
STEM Education (formerly Education and Human Resources)	Direct	47.076	2043022	-	960,919
STEM Education (formerly Education and Human Resources)	Direct	47.076	2247492	-	84,793
STEM Education (formerly Education and Human Resources)	Direct	47.076	1742286	-	269,326
STEM Education (formerly Education and Human Resources)	Direct	47.076	1954908	-	3,326
STEM Education (formerly Education and Human Resources)	Direct	47.076	1760585	-	20,203
STEM Education (formerly Education and Human Resources)	Direct	47.076	1935932	-	18,557
STEM Education (formerly Education and Human Resources)	Direct	47.076	2322530	-	253,150
STEM Education (formerly Education and Human Resources)	Direct	47.076	1758392	2,240	128,559
STEM Education (formerly Education and Human Resources)	Direct	47.076	2345094	9,852	115,811
STEM Education (formerly Education and Human Resources)	Direct	47.076	2405225	-	56,438
STEM Education (formerly Education and Human Resources)	Direct	47.076	2142309	-	123,479
Passed through Texas Woman's University					
STEM Education (formerly Education and Human Resources)	Pass-through	47.076	2023-114-002	-	19,506
Passed through University of Virginia					
STEM Education (formerly Education and Human Resources)	Pass-through	47.076	GR012078.SUB00000225/1850296	-	12,685
Passed through Northern Virginia Community College					
STEM Education (formerly Education and Human Resources)	Pass-through	47.076	Subaward No. 2122-SPL-002	-	45,633
Passed through San Diego State University Research Foundation					
STEM Education (formerly Education and Human Resources)	Pass-through	47.076	SA0000699	-	26,692
Office of International Science and Engineering	Direct	47.079	2311700	-	(3,548)
Office of International Science and Engineering	Direct	47.079	2103105	-	20,038
Office of Integrative Activities	Direct	47.083	1934346	-	137,262
Office of Integrative Activities	Direct	47.083	2433337	-	28,291
NSF Technology, Innovation, and Partnerships	Direct	47.084	2234450	74,413	163,899
NSF Technology, Innovation, and Partnerships	Direct	47.084	2515352	-	26,973
NSF Technology, Innovation, and Partnerships	Direct	47.084	2337267	-	12,000
NSF Technology, Innovation, and Partnerships	Direct	47.084	2322532	-	328,285
NSF Technology, Innovation, and Partnerships	Direct	47.084	2329746	-	246,442
Passed through Council of Graduate Schools					
NSF Technology, Innovation, and Partnerships	Pass-through	47.084	Subaward under NSF Grant #2336	-	12,435
Passed through University of Florida					
NSF Technology, Innovation, and Partnerships	Pass-through	47.084	SUB00003604	-	74,882
Total National Science Foundation				1,271,586	10,726,041
Environmental Protection Agency					
Passed through Michigan Department of Environment, Great Lakes, and Energy					
Geographic Programs - Great Lakes Program	Pass-through	66.469	2023-2502	-	61,255
Science To Achieve Results (STAR) Research Program	Direct	66.509	84056401	19,621	359,483
Innovative Water Technology Grant Program	Direct	66.521	84046901	16,516	263,979
Total Environmental Protection Agency				36,137	684,717
U.S. Department of Energy					
Passed through American Lung Association					
Expanding Regional EVSE Access with Tribal Nations based in Community Priorities	Pass-through	81.RD	Subaward 10/01/23/DE-EE0010623	-	67,685
Passed through Argonne National Laboratory					
ReCell Michigan Tech FY24 Project	Pass-through	81.RD	4F-60169	-	164,287
COMPASS GLM	Pass-through	81.RD	1F-60486	-	113,207
Influences of Future Tropical and Extratropical Storms on Wind Energy over the Eastern US and Offshore	Pass-through	81.RD	3F-60070	-	79,467
Pengfei Xue Joint Appointment Argonne National Labs	Pass-through	81.RD	Pengfei Xue Joint Appointment	-	131,204
Passed through Battelle Energy Alliance, LLC					
Solvent Targeted Recovery and Precipitation (STRAP) For Plastic Removal form Municipal Solid Waste (MSW)	Pass-through	81.RD	271754	-	146,715
Passed through Battelle Memorial Institute					
Reduced Cost and Complexity for Off-Highway Aftertreatment	Pass-through	81.RD	Contract No. 554645	-	63,929
Reduced Cost and Complexity for Off-Highway Aftertreatment	Pass-through	81.RD	Subcontract No. 764955	-	119,432
Passed through Brookhaven National Laboratory					
Brookhaven National Laboratory Joint Appointment	Pass-through	81.RD	JA OVERARCHING AGRMT /	-	73,313
Passed through Consolidated Nuclear Security, LLC					
Processing / Structure / Properties Support for the Research Development, Test and Evaluation (RDT&E) for Nuclear Materials Technology	Pass-through	81.RD	4300182461 / LINE ITEM 1	-	23,491
Passed through Faraday Technology Inc.					
MTU Support for DOE SBIR Phase 2b Project "Electro-dewatering of Cellulosic Nanomaterials"	Pass-through	81.RD	SC-40-02091-401034-46	-	2,612

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Research and Development Cluster (Continued)					
U.S. Department of Energy (Continued)					
Passed through General Motors LLC					
Low Mass and High Efficiency Engine for Medium-Duty Truck Applications	Pass-through	81.RD	PO #4301052432	\$ -	\$ 890
Passed through Honeywell Federal Manufacturing & Technologies, LLC:					
Simulation and Testing Methods for Optimal Fixture Design and Prediction	Pass-through	81.RD	N000545199	-	26,904
Simulation Methods for Optimal Fixture Design and Prediction	Pass-through	81.RD	Purchase Order N000516128	-	34,579
Passed through Los Alamos National Laboratory					
08 Anti-Mine Ground Penetrator	Pass-through	81.RD	Subcontract No. C4002	-	13,240
Optimization of Metal Manufacturing	Pass-through	81.RD	Subcontract No. C3938	-	423,361
Development of High Strength High Toughness Materials for Impulsively Loaded Pressure Vessels	Pass-through	81.RD	Subcontract No. C4472	-	230,120
Passed through National Renewable Energy Laboratory					
A Compression Ignition Mono-Fueled NG High-Efficiency, High-Output Engine for Medium and Heavy Duty Applications	Pass-through	81.RD	NHQ-9-82305-06	-	12,627
Passed through Sandia National Laboratories					
Enhancing the Efficiency and Resilience of PV Systems at Northern Latitudes	Pass-through	81.RD	PO #2324302	-	79,657
Technical Support and Maintenance of the Meteorological Instrument at the Michigan Regional Test Center for Solar Technologies	Pass-through	81.RD	PO #2348229	-	6,224
Nonlinear Hydrodynamic Modeling	Pass-through	81.RD	PO #2552938	-	28,673
Advanced Modeling, Controls, and Power Electronics Testing for Large Penetration of Renewable Energy Grid Integration - PART 01	Pass-through	81.RD	PO #2563007	-	52,100
Advanced Modeling, Controls, and Power Electronics Testing for Large Penetration of Renewable Energy Grid Integration - PART 02	Pass-through	81.RD	PO #2563018	-	191,512
Ultra-Low GHG Emissions for Off-Road Equipment through Low-Carbon Bio-Naphtha and Increased CI-Engine Efficiency	Pass-through	81.RD	PO #2572298	-	228,938
WEC Power Electronics Sapling	Pass-through	81.RD	PO #2623511	-	59,793
Advanced MoAdvanced Modeling, Controls, and Power Electronics Testing for Large Penetration of Renewable Energy Grid Integration (TASK 2025B - CESER FY25)	Pass-through	81.RD	PO #2683713	-	20,000
Advanced Modeling, Controls, Power Electronics, and Water Power Testing for Renewable Energy Grid Integration (AGM FY25)	Pass-through	81.RD	PO #2683747	-	18,247
Advanced Modeling, Controls, Power Electronics, and Water Power Testing for Renewable Energy Grid Integration (RES FY25)	Pass-through	81.RD	PO #2683774	-	46,041
Operational Support for Meteorological Instrumentation at the Michigan Regional Test Center (MI RTC)	Pass-through	81.RD	PO #2684986	-	2,452
"Strategies and Technologies for Operationally Resilient and Maximally-available Solar" (STORMS)	Pass-through	81.RD	PO #2702610	-	30,688
Passed through The American Center for Mobility					
Support test bed operation, industry taskforces, and engagement on EV interoperability	Pass-through	81.RD	PO #EV000000001	-	48,499
Passed through The Regents of the University of California					
Fiber Optic Sensor Deployment for Single-axis Tracking Solar PV Thin glass Safety Glazing Test	Pass-through	81.RD	SUB 7776101 / DEAC0205CH11231	-	16,509
Thin glass Safety Glazing Test	Pass-through	81.RD	Subcontract No. 7756639	-	34,826
Passed through Toyon Research Corporation					
Scatterometry and Wind Speed Estimation (COSAS)-Phase 2	Pass-through	81.RD	Subcontract No. SC24F414-2-P10	-	301,908
Passed through University of North Carolina at Charlotte					
PV panel heating for increased power production in winter climates	Pass-through	81.RD	UNC-Charlotte Contract dated	-	5,085
Passed through Iowa State University					
Cybersecurity, Energy Security & Emergency Response (CESER)	Pass-through	81.008	Subaward No. 029070B	-	41,086
Office of Science Financial Assistance Program	Direct	81.049	DE-SC0022128	-	135,759
Office of Science Financial Assistance Program	Direct	81.049	DE-SC0022095	100,581	172,875
Office of Science Financial Assistance Program	Direct	81.049	DE-SC0021168	12,729	20,840
Office of Science Financial Assistance Program	Direct	81.049	DE-SC0024446	49,334	367,940
Passed through University of California, Los Angeles					
Office of Science Financial Assistance Program	Pass-through	81.049	0190000102624	-	139,571
Passed through University of Maryland College Park					
Office of Science Financial Assistance Program	Pass-through	81.049	117387-Z7159201	-	340,685
University Coal Research	Direct	81.057	DE-FE0032071	1,989	80,459
University Coal Research	Direct	81.057	DE-FE0032236	-	326,609
Conservation Research and Development	Direct	81.086	DE-EE0010604	455,909	832,266
Conservation Research and Development	Direct	81.086	DE-EE0010398	442,286	1,812,934
Conservation Research and Development	Direct	81.086	DE-EE0009122	3,348	39,244
Conservation Research and Development	Direct	81.086	DE-EE0008800	-	379,127
Passed through Georgia Institute of Technology					
Conservation Research and Development	Pass-through	81.086	AWD-005601-G2	-	93,989
Passed through University of Texas at San Antonio					
Conservation Research and Development	Pass-through	81.086	Subaward Project No.1000006274	-	91,784
Passed through Texas A&M University					
Conservation Research and Development	Pass-through	81.086	M2300703	-	57,544
Renewable Energy Research and Development	Direct	81.087	DE-EE0010294	254,378	875,373
Passed through Iowa State University					
Renewable Energy Research and Development	Pass-through	81.087	027933B / DE-EE0010742	-	136,725
Passed through Gas Technology Institute					
Renewable Energy Research and Development	Pass-through	81.087	Agreement No. SR109/Prime DE-EE	-	97,484
Renewable Energy Research and Development	Pass-through	81.087	GTI Agre #S948; Project #22530	-	6,903
Passed through AMP Robotics Corporation					
Renewable Energy Research and Development	Pass-through	81.087	Subaward agreement No. 1	-	88,322

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				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Energy (Continued)					
Passed through REMADE Institute					
Renewable Energy Research and Development	Pass-through	81.087	Subaward No. 20-01-SA-4014	\$ 8,850	\$ 32,120
Renewable Energy Research and Development	Pass-through	81.087	Subaward No. 23-01-RR-6002	-	53,384
Passed through Michigan State University					
Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance	Pass-through	81.117	Subaward No. RC112846 - MTU	-	26,491
Advanced Research Projects Agency - Energy	Direct	81.135	DE-AR000788	111,927	1,534,442
Advanced Research Projects Agency - Energy	Direct	81.135	DE-AR0001336	-	1,708
Advanced Research Projects Agency - Energy	Direct	81.135	DE-AR0001702	257,843	688,812
Advanced Research Projects Agency - Energy	Direct	81.135	DE-AR0001781	-	203,624
Advanced Research Projects Agency - Energy	Direct	81.135	DE-AR0001960	16,438	61,309
Passed through The American Center for Mobility					
Advanced Research Projects Agency - Energy	Pass-through	81.135	DE-AR0001916-01	-	249,106
Passed through Georgia Institute of Technology					
Advanced Research Projects Agency - Energy	Pass-through	81.135	AWD-006436-G1	-	39,319
Total U.S. Department of Energy				1,715,612	11,926,049
U.S. Department of Health and Human Services - Centers for Disease Control					
Mine Health and Safety Big Data Analysis and Text Mining by Machine Learning Algorithms	Direct	93.RD	75D30121C12375	-	(5,524)
Pilot Testing of Ergonomic Devices in Patient Handling Tasks	Direct	93.RD	75D30124P18886	-	20,017
Size-dependent Metric Analysis of Respirable Coal Mine Dust (RCMD)	Direct	93.RD	75D30122C14732	82,491	78,414
Passed through Virginia Polytechnic Institute and State University					
Measurement of in-situ geomechanical properties using hydraulic techniques	Pass-through	93.RD	Subaward No. 412894-19959	-	18,640
Passed through Michigan Department of Health and Human Services					
Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	Pass-through	93.323	Agreement#: E20224555-00	-	69,318
Subtotal U.S. Department of Health and Human Services - Centers for Disease Control				82,491	180,865
U.S. Department of Health and Human Services - National Institutes of Health					
Mitochondrial-targeting exosomes for neuroinflammation	Direct	93.RD	1R15EB035866-01	-	70,344
Passed through Marquette University					
Lipid corrosion	Pass-through	93.RD	Service Order #24-0842	-	874
Passed through Hemex Medical					
Portable, affordable, quantitative microchip electrophoresis for hemoglobin A1C testing	Pass-through	93.RD	MTU Agreement #2112050	-	95,912
Food and Drug Administration Research	Direct	93.103	3R01FD007461-03S1	182,369	367,914
Passed through Oregon Health & Science University					
Research Related to Deafness and Communication Disorders	Pass-through	93.173	1017309_MTU	-	65,728
Passed through University of Michigan					
Research and Training in Complementary and Integrative Health	Pass-through	93.213	SUBK00013369	-	1,144
Discovery and Applied Research for Technological Innovations to Improve Human Health	Direct	93.286	5R01EB029570-04	38,969	187,097
Cancer Cause and Prevention Research	Direct	93.393	5R03CA259652-02	-	36,353
Cancer Detection and Diagnosis Research	Direct	93.394	2R15CA242401-02A1	-	218,502
Cardiovascular Diseases Research	Direct	93.837	1R15HL159602-01A1	-	189,931
Cardiovascular Diseases Research	Direct	93.837	1R01HL144739-01A1	-	(8,574)
Cardiovascular Diseases Research	Direct	93.837	1R56HL163552-01A1	-	115,643
Cardiovascular Diseases Research	Direct	93.837	1R15HL167221-01	-	(1,685)
Cardiovascular Diseases Research	Direct	93.837	1R15HL173852-01	-	107,565
Cardiovascular Diseases Research	Direct	93.837	5R01HL163159-04	-	448,506
Cardiovascular Diseases Research	Direct	93.837	1R15HL172198-01	-	101,139
Passed through Marquette University					
Cardiovascular Diseases Research	Pass-through	93.837	2570-02-03	-	18,453
Passed through Oregon Health & Science University					
Cardiovascular Diseases Research	Pass-through	93.837	1022559_MTU	-	359,715
Passed through University of Michigan					
Lung Diseases Research	Pass-through	93.838	SUBK00010701	-	27,637
Diabetes, Digestive, and Kidney Diseases Extramural Research	Direct	93.847	R15DK136103	-	6,950
Diabetes, Digestive, and Kidney Diseases Extramural Research	Direct	93.847	1R15DK134992-01	-	154,120
Diabetes, Digestive, and Kidney Diseases Extramural Research	Direct	93.847	1R15DK137195-01	-	81,054
Extramural Research Programs in the Neurosciences and Neurological Disorders	Direct	93.853	1R15NS133859-01	-	141,352
Allergy and Infectious Diseases Research	Direct	93.855	5R21AI175913-02	91,408	193,267
Biomedical Research and Research Training	Direct	93.859	1R15GM139118-01A1	15,592	18,178
Biomedical Research and Research Training	Direct	93.859	2R15GM139118-02	-	246,200
Biomedical Research and Research Training	Direct	93.859	3R15GM109288-03S1	-	283,614
Biomedical Research and Research Training	Direct	93.859	2R15GM135806-02	-	288,650
Biomedical Research and Research Training	Direct	93.859	2R15GM132873-02	46,396	225,366
Biomedical Research and Research Training	Direct	93.859	2R15GM135875-02	-	171,253
Biomedical Research and Research Training	Direct	93.859	1R15GM146206-01	-	201,490
Biomedical Research and Research Training	Direct	93.859	1R15GM152969-01	-	244,802
Biomedical Research and Research Training	Direct	93.859	1R15GM137298	-	141
Biomedical Research and Research Training	Direct	93.859	1R15GM148964-01	-	83,813
Biomedical Research and Research Training	Direct	93.859	1R15GM151700-01	-	54,954
Passed through Tulane University					
Aging Research	Pass-through	93.866	TUL-HSC-562547-24/25	-	37,103

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Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided	
				to Subrecipients	Federal Expenditures
Research and Development Cluster (Continued)					
U.S. Department of Health and Human Services - National Institutes of Health (Continued)					
Vision Research	Direct	93.867	1R01EY035305-01	\$ (6,632)	\$ (6,632)
Subtotal U.S. Department of Health and Human Services - National Institutes of Health				368,102	4,827,873
Total U.S. Department of Health and Human Services				450,593	5,008,738
U.S. Department of Homeland Security - U.S. Coast Guard					
Uncrewed Detection of Submerged Oil using UV Fluorometry	Direct	97.RD	70Z02324CMER00001 IRC 31000DOL	-	103,851
Uncrewed Detection of Submerged Oil Using UV Fluorometry Phase 2	Direct	97.RD	70Z02325CMER00005	-	33,069
Total U.S. Department of Homeland Security - U.S. Coast Guard				-	136,920
Total Research and Development Cluster				12,563,513	69,143,461
TRIO					
U.S. Department of Education					
TRIO McNair Post-Baccalaureate Achievement	Direct	84.217	P217A220192	-	320,797
TRIO Talent Search	Direct	84.044	P044A221045 - 24	-	110,814
TRIO Upward Bound	Direct	84.047	P047A231614	-	379,282
Total TRIO Cluster				-	810,893
Special Education Cluster (IDEA)					
U.S. Department of Education					
Passed through Michigan Department of Lifelong Education Advancement					
Special Education Grants to States	Pass-through	84.027	E20250054	-	10,035
Total Clusters				12,563,513	106,461,829
Other Federal Awards					
U.S. Department of Agriculture					
Passed through Partridge Creek Farm					
ReGENERATE Curriculum: Development of 6th Grade Curriculum Materials	Pass-through	10.U01	MTU Service Agreement 24-0420	-	14,124
Passed through Michigan Department of Education					
Child and Adult Care Food Program	Pass-through	10.558		-	11,862
Subtotal U.S. Department of Agriculture				-	25,986
U.S. Department of Agriculture - Forest Service					
Digital Science Communication	Direct	10.U02	19-CR-11242306-118	-	10,346
Supporting Science-Management Partnerships for Climate Adaptation	Direct	10.U03	20-CR-11242306-068	-	127,005
Forest Service Research Web Modernization - Content Delivery	Direct	10.U04	20-CR-11242306-094	-	54,371
Belowground Ecosystem Ecologist	Direct	10.U05	21-JV-11242306-039	-	113,766
USDA Northern Forest Climate Hub Coordination	Direct	10.U06	22-CR-11242306-036	-	76,179
Increasing Forest Service Capacity for Climate-Informed Project Development	Direct	10.U07	22-CS-11242306-049	-	49,537
Archaeological Collection Cooperative Management Hiawatha National Forest	Direct	10.U08	24-CS-11091000-006	-	6,220
Partnership Agreements	Direct	10.699	22-CS-11242306-076	-	53,491
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	19-CR-11242306-094	-	5,839
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	21-CR-11242306-080	-	60,311
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	23-CR-11242306-057	-	10,612
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	23-CR-11242306-058	-	6,367
Research Joint Venture and Cost Reimbursable Agreements	Direct	10.707	24-CR-11242306-024	-	74,803
Inflation Reduction Act - National Forest System	Direct	10.729	23-CS-11242306-071	-	30,276
Subtotal U.S. Department of Agriculture - Forest Service				-	679,123
Total U.S. Department of Agriculture				-	705,109
U.S. Department of Commerce - National Oceanic and Atmospheric Administration					
Marine Sanctuary Program	Direct	11.429	NA23NOS4290223	-	58,269
Marine Sanctuary Program	Direct	11.429	NA24NOSX429G0012-T1-01	-	55,100
Subtotal U.S. Department of Commerce - National Oceanic and Atmospheric Administration				-	113,369
U.S. Department of Commerce - U.S. Economic Development Administration					
Cluster Grants	Direct	11.020	ED23OIE0G0138	-	207,057
Total U.S. Department of Commerce				-	320,426
U.S. Department of Defense - U.S. Army					
Delivery of Professional Development Course Modules in Electrified Propulsion Systems	Direct	12.U01	W911RQ24P0027	-	112,029
U.S. Department of Interior - National Park Service					
Passed through Osceola Township					
Quincy Dredge No. 2 Digital Documentation	Pass-through	15.U01	Confirming Order #23-7605	-	3,236
Passed through Keweenaw NHP Advisory Commission					
Calumet and Hecla Employee Card Digitization Cleanup	Pass-through	15.U02	C2023-012	-	1,098
Cooperative Research and Training Programs – Resources of the National Park System	Direct	15.945	P20AC00379	-	5,196
Total U.S. Department of Interior				-	9,530

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Other Federal Awards (Continued)					
U.S. Department of Labor					
Mine Health and Safety Grants	Direct	17.600	23R55MS000041-01-00	\$ -	\$ (31,076)
Mine Health and Safety Grants	Direct	17.600	4R55MS000086-01-00	-	324,556
Total U.S. Department of Labor				-	293,480
U.S. Department of State					
Educational and Cultural Exchange Programs Appropriation Overseas Grants	Direct	19.022	SNS50024GR0003	-	15,000
U.S. Department of Transportation - Federal Highway Administration					
Passed through Michigan Department of Transportation					
Roadsoft Support for MDOT Safety Services	Pass-through	20.U01	2019-0449	-	2,713
Highway Planning and Construction	Pass-through	20.205	2023-0036, AUTH Z7	-	463,477
Highway Planning and Construction	Pass-through	20.205	2025-0002	-	164,361
Highway Planning and Construction	Pass-through	20.205	2023-0036, AUTH Z3	-	26,977
Highway Planning and Construction	Pass-through	20.205	2023-0036, AUTH Z2	-	478,880
Highway Planning and Construction	Pass-through	20.205	2023-0036, AUTH Z6	-	80,366
Highway Planning and Construction	Pass-through	20.205	2024-0590	-	47,215
Highway Planning and Construction	Pass-through	20.205	2025-0424	-	449
Highway Training and Education	Pass-through	20.215	2022-0997, AUTH Z6-9	-	227,031
Highway Training and Education	Pass-through	20.215	2024-0777, AUTH Z1-Z4	-	536,910
Metropolitan Transportation Planning and State and non-Metropolitan Research	Pass-through	20.505	2025-0308	-	15,484
Total U.S. Department of Transportation - Federal Highway Administration				-	2,043,863
U.S. Department of Treasury					
Passed through Michigan Economic Development Corporation					
COVID-19 - Coronavirus State and Local Fiscal Recovery Funds	Pass-through	21.027	Case 424344	-	250,229
COVID-19 - Coronavirus State and Local Fiscal Recovery Funds	Pass-through	21.027	Case 424344	-	88,259
COVID-19 - Coronavirus State and Local Fiscal Recovery Funds	Pass-through	21.027	Case 424344	-	23,526
COVID-19 - Coronavirus State and Local Fiscal Recovery Funds	Pass-through	21.027	Case 424344	-	8,511
COVID-19 - Coronavirus State and Local Fiscal Recovery Funds	Pass-through	21.027	SUB-GRANT AGREEMENT	-	321,802
Total U.S. Department of Treasury				-	692,327
National Aeronautics and Space Administration					
Science	Direct	43.001	80NSSC17M0076	7,707	201,456
Passed through Regents of the University of Michigan					
Education	Pass-through	43.008	SUBK00022513	-	15,405
Passed through University of Michigan					
Education	Pass-through	43.008	SUBK00011994	-	375
Education	Pass-through	43.008	SUBK00021913	-	61,236
Total National Aeronautics and Space Administration				7,707	278,472
National Endowment for the Arts					
Promotion of the Arts Grants to Organizations and Individuals	Direct	45.024	1929426-54-24	-	20,000
National Endowment for the Humanities					
Passed through Michigan Humanities Council					
Promotion of the Humanities Federal/State Partnership	Pass-through	45.129	HU051-25	-	10,000
Promotion of the Humanities Office of Digital Humanities	Direct	45.169	HT-301411-24	1,440	29,829
Total National Endowment for the Humanities				1,440	39,829
Small Business Administration					
Passed through Grand Valley State University					
Small Business Development Centers	Pass-through	59.037	MISBDC 2023-1	-	(5,542)
Small Business Development Centers	Pass-through	59.037	MI-SBDC 2024 (R1)	-	338,709
Small Business Development Centers	Pass-through	59.037	MISBDC 2025 (R1)	-	70,251
Total Small Business Administration				-	403,418
U.S. Environmental Protection Agency					
Environmental Finance Center Grants	Direct	66.203	00E03340	-	73,284
Passed through University of New Mexico					
Surveys, Studies, Investigations, Demonstrations, and Training Grants - Section 1442 of the Safe Drinking Water Act	Pass-through	66.424	PTE #84096201 / 281196-8737	-	45,072
Surveys, Studies, Investigations, Demonstrations, and Training Grants and Cooperative Agreements - Section 104(b)(3) of the Clean Water Act	Pass-through	66.436	PTE #84096301 / 281194-8737	-	28,084
Technical Assistance for Treatment Works (Clean Water Act [CWA] Section 104(b)(8))	Pass-through	66.446	281176-8737	-	189,051
Technical Assistance for Treatment Works (Clean Water Act [CWA] Section 104(b)(8))	Pass-through	66.446	Subaward No. 281177-8737	-	49,997
Total Environmental Protection Agency				-	385,488

See notes to schedule of expenditures of federal awards.

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Federal Agency/Pass-through Agency/Program Title	Direct/Pass-through	Assistance Listing Number	Grant ID / Pass-through Entity Identifying Number	Total Amount Provided to Subrecipients	Federal Expenditures
Other Federal Awards (Continued)					
U.S. Department of Energy					
Passed through American Physical Society					
APS Conferences for Undergraduate Women in Physics	Pass-through	81.U01	CUWIP 2025 SITE/ CWC-095	\$ -	\$ 17,934
U.S. Department of Education					
Passed through UPWARD Talent Council					
Upper Peninsula Michigan Works Contractual Training for MILEAP Project	Pass-through	84.U01	MTU MILEAP Contract Document	-	5,256
Passed through Michigan Department of Education					
Michigan GEAR UP	Pass-through	84.U02	24-00	-	88,567
GEAR UP - YEAR 5	Pass-through	84.U03	Project No. 25-00	-	13,713
Passed through Michigan Department of Lifelong Education Advancement					
Michigan Tech Seminar Project	Pass-through	84.U04	E20250032	-	27,998
Total U.S. Department of Education				-	135,534
U.S. Department of Homeland Security - Federal Emergency Management Agency					
Passed through Michigan State Police					
Hazard Mitigation Grant	Pass-through	97.039	Project No. HMGP 4494.06	-	23,453
Hazard Mitigation Grant	Pass-through	97.039	Project No. HMGP 4494.14	-	2,668
Total U.S. Department of Homeland Security				-	26,121
Total Other Federal Awards				9,147	5,498,560
Total Federal Awards				\$ 12,572,660	\$ 111,960,389

Notes to Schedule of Expenditures of Federal Awards

Year Ended June 30, 2025

Note 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, 2025. The information in the Schedule is presented in accordance with the requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). 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.

Note 2 - Summary of Significant Accounting Policies

Expenditures reported in the Schedule are reported on the accrual basis of accounting. Such expenditures are recognized following the cost principles contained in Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, 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. The pass-through entity identifying numbers are presented where available.

The University has elected not to use the 10 percent *de minimis* indirect cost rate to recover indirect costs, as allowed under the Uniform Guidance, since the University has an approved indirect cost rate through its cognizant agency.

Note 3 - Loans Balances

Loans outstanding at the beginning of the year and loans made during the year are included in the federal expenditures presented in the schedule of expenditures of federal awards. The balances of loans outstanding consist solely of the Perkins Loan program, which had an outstanding loan balance of \$1,457,980 at June 30, 2025.

Schedule of Findings and Questioned Costs

Schedule of Findings and Questioned Costs

Year Ended June 30, 2025

Section I - Summary of Auditor's Results

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

- Material weakness(es) identified? _____ Yes X No
- Significant deficiency(ies) identified that are not considered to be material weaknesses? _____ Yes X None reported
- Noncompliance material to financial statements noted? _____ Yes X None reported

Federal Awards

Internal control over major programs:

- Material weakness(es) identified? _____ Yes X No
- Significant deficiency(ies) identified that are not considered to be material weaknesses? _____ Yes X None reported
- Any audit findings disclosed that are required to be reported in accordance with Section 2 CFR 200.516(a)? _____ Yes X No

Identification of major programs:

Assistance Listing Number	Name of Federal Program or Cluster	Opinion
Various	Research and Development Cluster	Unmodified

Dollar threshold used to distinguish between type A and type B programs: \$3,000,000

Auditee qualified as low-risk auditee? _____ X Yes _____ No

Section II - Financial Statement Audit Findings

Reference Number	Finding
Current Year	None

Section III - Federal Program Audit Findings

Reference Number	Finding
Current Year	None