A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT

(In Accordance With the Single Audit Act and Applicable Federal Regulations)

For the Year Ended June 30, 2021

Performed as Special Assistant Auditors for the Auditor General, State of Illinois



WEALTH ADVISORY | OUTSOURCING AUDIT, TAX, AND CONSULTING

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A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT For the Year Ended June 30, 2021

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NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT For the Year Ended June 30, 2021

UNIVERSITY OFFICIALS

President	Lisa C. Freeman
Executive Vice President and Provost	Beth Ingram
Vice President for Administration and Finance and Chief Financial Officer	Sarah Chinniah
Associate Vice President for Finance and Treasury	Shyree Sanan
Vice President for Research and Innovation Partnerships	Gerald Blazey
Vice President and General Counsel	Bryan Perry
Vice President for Enrollment Management, Marketing and Communications	Sol Jensen
Vice President for Outreach, Engagement and Regional Development	Rena Cotsones
Vice President for University Advancement	Catherine Squires
Director of Internal Audit	Danielle Schultz

Financial Staff

Controller	Jason Askin
Deputy Controller	Greg Martyn
Financial Reporting Manager	Kathy Marshall

NIU Board Members

Chair	Dennis L. Barsema
Vice Chair	Eric Wasowicz
Secretary	Robert W. Pritchard
Trustees	Rita Athas John R. Butler Montel Gayles Veronica Herrero
Student Trustee	Aidan Shields

NIU Office is located at: 300 Altgeld Hall DeKalb, Illinois 60115

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT For the Year Ended June 30, 2021

SUMMARY

The compliance testing performed during this audit of Northern Illinois University (University) was conducted in accordance with the Single Audit Act, Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Guidance Requirements, Cost Principals, and Audit Requirements for Federal Awards* (Uniform Guidance), and Government Auditing Standards.

AUDITORS' REPORT

The Independent Auditors' Report on Compliance for Each Major Federal Program; Report on Internal Control Over Compliance; and Report on schedule of expenditures of federal awards, and the schedule of federal and nonfederal financial activity does not contain scope limitations, disclaimers, or other significant non-standard language.

SUMMARY OF FINDINGS

Number of	Current Report	Prior Report
Findings	4	4
Repeated Findings	3	1
Prior Recommendations Implemented or Not Repeated	1	1

Schedule of Findings

ltem No.	Page	Last/First Reported	Description	Finding Type
			Current Finding - Government Auditing Standards	
2021-001	10	2020/2020	Inadequate Internal Controls over Census Data	Material weakness
			Current Findings - Federal Compliance	
2021-002	13	2020/2017	Enrollment Status Reporting	Significant deficiency and noncompliance
2021-003	15	2020/2020	Information Technology Risk Assessment Not Performed	Significant deficiency and noncompliance
2021-004	17	New	Higher Education Emergency Relief Fund Reporting	Significant deficiency and noncompliance
			Prior Findings Not Repeated	
А	19	2020/2020	Inadequate Controls over Awarding of Direct Loans	

EXIT CONFERENCE

The University waived an exit conference in a correspondence from Jason Askin, Controller, on April 15, 2022. The responses to the recommendations were provided by Jason Askin, Controller, in a correspondence dated April 22, 2022.



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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*

Honorable Frank J. Mautino Auditor General State of Illinois and Board of Trustees Northern Illinois University

Report on the Financial Statements

As Special Assistant Auditors for the Auditor General, we have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities, fiduciary activities, and the aggregate discretely presented component units of Northern Illinois University, collectively a component unit of the state of Illinois, as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the Northern Illinois University's basic financial statements, and we have issued our report thereon dated May 3, 2022.

Our report includes a reference to other auditors who audited the financial statements of the aggregate discretely presented component units, as described in our report on Northern Illinois University's financial statements. The financial statements of the Northern Illinois University Foundation and the Northern Illinois Research Foundation, component units of Northern Illinois University, were not audited in accordance with *Government Auditing Standards* and, accordingly, this report does not include reporting on internal control or compliance and other matters associated with these component units.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether Northern Illinois 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*.



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Internal Control Over Financial Reporting

Management of Northern Illinois University is responsible for establishing and maintaining effective internal control over financial reporting (internal control).

In planning and performing our audit of the financial statements, we considered Northern Illinois 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 opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of Northern Illinois University's internal control. Accordingly, we do not express an opinion on the effectiveness of Northern Illinois University's internal control.

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

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that have not been identified. We did identify a certain deficiency in internal control, described in the accompanying Schedule of Findings as item 2021-001 that we consider to be a material weakness.

Northern Illinois University's Response to the Finding

Northern Illinois University's response to the finding identified in our audit is described in the accompanying Schedule of Findings. The Northern Illinois University's response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

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

SIGNED ORIGINAL ON FILE

CliftonLarsonAllen LLP

Oak Brook, Illinois May 3, 2022



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Independent Auditors' Report on Compliance for Each Major Federal Program; Report on Internal Control Over Compliance; Report on the Schedule of Expenditures of Federal Awards Required by the Uniform Guidance; and Report on the Schedule of Federal and Nonfederal Financial Activity

Honorable Frank J. Mautino Auditor General State of Illinois and Board of Trustees Northern Illinois University

Report on Compliance for Each Major Federal Program

As Special Assistant Auditors for the Auditor General of the State of Illinois, we have audited Northern Illinois University's (University) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2021. The University's major federal programs are identified in the summary of auditors' results section of the accompanying Schedule of Findings and Questioned Costs.

The University's basic financial statements include the operations of Northern Illinois University Foundation and the Northern Illinois Research Foundation, component units of the University, which are not included in the University's schedule of expenditures of federal awards during the year ended June 30, 2021. Our audit, as described below, did not include the operations of these component units because the component units engaged other auditors to perform an audit of their financial statements and, if necessary, an audit of compliance.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.



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Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and 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* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion on compliance for each of its major federal programs. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2021.

Other Matters

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying Schedule of Findings and Questioned Costs as items 2021-002 through 2021-004. Our opinion on each major federal program is not modified with respect to these matters.

The University's responses to the noncompliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

Report on Internal Control over Compliance

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

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

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that have not been identified. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, we did identify certain deficiencies in internal control over compliance, described in the accompanying Schedule of Findings and Questioned Costs as items 2021-002 through 2021-004, that we consider to be significant deficiencies.

The University's responses to the internal control over compliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

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.

Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance and the Report on the Schedule of Federal and Nonfederal Financial Activity

We have audited the financial statements of the business-type activities, fiduciary activities, and the aggregate discretely presented component units of the University, a component unit of the state of Illinois, as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated May 3, 2022, which contained unmodified opinions on those financial statements. Our report was modified to include a reference to other auditors. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the University's basic financial statements. We have not performed any procedures with respect to the audited financial statements subsequent to May 3, 2022. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. In addition, the accompanying schedule of federal and nonfederal financial activity is presented for the purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards and the schedule of federal and nonfederal financial activity are fairly stated in all material respects in relation to the basic financial statements as a whole.

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CliftonLarsonAllen LLP Oak Brook, Illinois June 8, 2022

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Schedule of Findings and Questioned Costs For the Year Ended June 30, 2021

Summary of Auditors' Results Financial Statements

1.	Type of auditors' report issued:	Unmodified
2.	Internal control over financial reporting:	
	• Material weakness(es) identified?	<u>x</u> yes <u>no</u>
	• Significant deficiencies identified?	yesnone reported
3.	Noncompliance material to financial statements noted?	yesno
Federa	al Awards	
1.	Internal control over major federal programs:	
	• Material weakness(es) identified?	yesno
	• Significant deficiencies identified?	<u>x</u> yesnone reported
2.	Type of auditors' report issued on compliance for major federal programs:	Unmodified
3.	Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?	<u>x</u> yesno
Identij	fication of Major Federal Programs	
	AL Number(s)	Name of Federal Program or Cluster
	84.007/84.033/84.038/84.063/ 84.268/84.379	Student Financial Assistance Cluster
	84.425E/84.425F	Coronavirus (COVID-19) Aid, Relief, and Economic Security Act
	threshold used to distinguish between and Type B programs:	<u>\$ 1,179,268</u>
Audite	e qualified as low-risk auditee?	yesno

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – *Government Auditing Standards* For the Year Ended June 30, 2021

2021-001 - Inadequate Internal Controls over Census Data

Northern Illinois University (University) did not have adequate internal control over reporting its census data and did not have a reconciliation process to provide assurance census data submitted to its pension and other postemployment benefits (OPEB) plans was complete and accurate.

Census data is demographic data (date of birth, gender, years of service, etc.) of the active, inactive, or retired members of a pension or OPEB plan. The accumulation of inactive or retired members' census data occurs before the current accumulation period of census data used in the plan's actuarial valuation (which eventually flows into each employer's financial statements), meaning the plan is solely responsible for establishing internal controls over these records and transmitting this data to the plan's actuary. In contrast, responsibility for active members' census data during the current accumulation period is split among the plan and each member's current employer(s). Initially, employers must accurately transmit census data elements of their employees to the plan. Then, the plan must record and retain these records for active employees and then transmit this census data to the plan's actuary.

We noted the University's employees are members of both the State Universities Retirement System (SURS) for their pensions and the State Employees Group Insurance Program sponsored by the State of Illinois, Department of Central Management Services (CMS) for their OPEB. In addition, we noted these plans have characteristics of different types of pension and OPEB plans, including single employer plans and cost-sharing multiemployer plans. Finally, CMS' actuaries use census data for employees of the State's public universities provided by SURS along with census data for the other participating members which is provided by the State's four other pension plans to prepare the projection of the OPEB plan's liabilities.

During testing, we noted the following:

- The University had not performed an initial complete reconciliation of its census data recorded by SURS and CMS to its internal records to establish a base year of complete and accurate census data.
- After establishing a base year, the University had not developed a process to annually obtain from SURS and CMS the incremental changes recorded by SURS and CMS in their census data records and reconcile these changes back to the University's internal supporting records.

Based on information we obtained while performing our audit, we learned these deficiencies are pervasive across the public universities participating in SURS and across the State's agencies participating in one of the other four State pension plans, the State Employees' Retirement System of Illinois. These conditions significantly increase the risk there could be errors at one or more employers within the plans, and these errors could have a significant impact on SURS' and CMS' measurement of pension and OPEB liabilities, respectively.

In addition, we noted errors within CMS' allocation of OPEB-related balances across the State's funds, public universities, and the Illinois State Toll Highway Authority related to a failure by CMS to account for a separately financed specific OPEB liability for certain groups of employees at one component unit of the State. The impact of these errors resulted in the University restating its beginning net position by \$1,542,712 as of July 1, 2020.

Based upon the significance of these issues alone, we concluded a material weakness exists within the University's internal controls related to ensuring both SURS and CMS can provide their respective actuaries with complete and accurate census data related to the University's active employees.

For employers where their employees participate in plans with multiemployer and cost-sharing features, the American Institute of Certified Public Accountants' Audit and Accounting Guide: State and Local Governments (AAG-SLG) (§ 13.177 for pensions and § 14.184 for OPEB) notes the determination of net pension/OPEB liability, pension/OPEB expense, and the associated deferred inflows and deferred outflows of resources depends on employer-provided census data reported to the plan being complete and accurate along with the accumulation and maintenance of this data by the plan being complete and accurate. To help mitigate against the risk of a plan's actuary using incomplete or inaccurate census data within similar agent multiemployer plans, the AAG-SLG (§ 13.181 (A-27) for pensions and § 14.141 for OPEB) recommends an employer annually reconcile its active

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Government Auditing Standards For the Year Ended June 30, 2021

members' census data to a report from the plan of census data submitted to the plan's actuary, by comparing the current year's census data file to both the prior year's census data file and its underlying records for changes occurring during the current year.

Additionally, eligibility criteria for participation in SURS under the Illinois Pension Code (Code) (40 ILCS 5/15-134(a)) states any person who is an employee of the University becomes a participant in SURS. Under the Code (40 ILCS 5/15-107), an employee is a person who works for the University in a secretarial, mechanical, labor, clerical, educational, administrative, or other staff position which is either (a) permanent and continuous or (b) for a period of four months or an academic term, whichever is less, who is:

- 1) not a student employed on a less than full-time temporary basis;
- 2) not receiving a retirement or disability annuity from SURS;
- 3) not on military leave;
- 4) not eligible to participate in the Federal Civil Service Retirement System,
- 5) not currently on a leave of absence without pay more than 60 days after the termination of SURS' disability benefits;
- 6) not paid from funds received under the Federal Comprehensive Employment and Training Act as a public service employment program participant hired on or after July 1, 1979;
- 7) not a patient in a hospital or home;
- 8) not an employee compensated solely on a fee basis where such income would net earnings from selfemployment;
- 9) not providing military courses pursuant to a federally-funded contract where the University has filed a written notice with SURS electing to exclude these persons from the definition of an employee;
- 10) currently on lay-off status of not more than 120 days after the lay-off date;
- 11) not on an absence without pay of more than 30 days; and
- 12) a nonresident alien on a visa defined under subparagraphs (F), (J), (M), or (Q) of Section 1101(a)(15) of Title 8 of the United States Code who (1) has met the IRS's substantial presence test and (2) became an employee on and after July 1, 1991.

Further, for CMS' OPEB plan, we noted participation in OPEB is derivative of an employee's eligibility to participate in SURS, as members of SURS participate in OPEB as annuitants under the State Employees Group Insurance Act of 1971 (Act) (5 ILCS 375/3(b)).

In addition, the Illinois Pension Code (40 ILCS 5/15-157) requires the University to, at a minimum, withhold contributions of each employee's total compensation of 8% (9.5% for firefighters or police officers) for their participation in SURS, unless further contributions by the employee would either exceed the maximum retirement annuity in the Code (40 ILCS 5/15-136(c)) or the Tier 2 earnings limitation within the Code (40 ILCS 5/15-111(b)), and remit these amounts to SURS. Further, the Code (40 ILCS 5/15-155(b)) requires the University remit employer contributions to SURS reflecting the accruing normal costs of an employee paid from federal or trust funds. Additionally, the Act (5 ILCS 375/10) requires active employees to make contributions as set by CMS and the Act (5 ILCS 375/11) requires employer contributions by the University for all employees not totally compensated from its Income Fund, local auxiliary funds, and the Agricultural Premium Fund.

Finally, the Fiscal Control and Internal Auditing Act (30 ILCS 10/3001) requires the University establish and maintain a system, or systems, of internal fiscal and administrative controls to provide assurance funds applicable to operations are properly recorded and accounted for to permit the preparation of reliable financial and statistical reports.

University officials indicated that additional time was required in order to perform a complete base year reconciliation of the SURS and CMS data used in the actuarial valuations. Additional time was also required to establish a process or procedure for performing a complete annual reconciliation for the incremental changes during the year with SURS and CMS.

Failure to ensure complete and accurate census data was reported to SURS could result in a material misstatement of the University's financial statements and reduced the overall accuracy of pension/OPEB-related liabilities,

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Government Auditing Standards For the Year Ended June 30, 2021

deferred inflows and outflows of resources, and expense recorded by the State, the State's agencies, and other public universities and community colleges across the State. In addition, failure to reconcile active members' census data reported to and held by SURS to the University's internal records could result in each plan's actuary relying on incomplete or inaccurate census data in the calculation of the pension and OPEB balances, which could result in a material misstatement of these amounts. Finally, the allocation error involving one component unit in the OPEB plan resulted in misstatements within each employer's allocation, which resulted in a restatement at the University. (Finding Code No. 2021-001, 2020-001)

Recommendation

We recommend the University work with SURS to annually reconcile its active members' census data from its underlying records to a report of census data submitted to SURS' actuary and CMS' actuary. After completing an initial full reconciliation, the University may limit the annual reconciliations to focus on the incremental changes to the census data file from the prior actuarial valuation, provided no risks are identified that incomplete or inaccurate reporting of census data may have occurred during prior periods. Any errors identified during this process should be promptly corrected by either the University or SURS, with the impact of these errors communicated to both SURS' actuary and CMS' actuary.

University Response

Accepted. The University currently has real time processes and procedures in place for processing certifications, changes, and terminations in the SURS and CMS systems. The University is currently in the process of completing an initial full reconciliation of the census data. The University will revise its current processes and procedures to include an annual reconciliation of the incremental changes to the census data from the prior valuation, ensuring that census data submitted to its pension and other postemployment benefits (OPEB) plans is complete and accurate.

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

Finding 2021-002 - Enrollment Status Reporting

Federal Agency: U.S. Department of Education (USDE)

Program Name: Student Financial Assistance Cluster

Federal AL Number and Program Expenditures: 84.007/84.033/84.063/84.268/84.379 (\$108,119,173)

Award Numbers: P007A161243/P033A161243/P063P161370/P268K171370/P379T171370

Questioned Costs: None

CONDITION FOUND

Northern Illinois University (the University) did not correctly complete enrollment status reporting to the National Student Loan Data System (NSLDS).

During our testing from a statistically valid sample, we noted 6 of 40 students tested (15%) did not have their enrollment status correctly reported to the NSLDS.

CRITERIA OR REQUIREMENT

The NSLDS Enrollment Reporting Guide section 3.3 states, schools must have some arrangement to report student enrollment data to NSLDS through an enrollment roster file. Section 4.3 of the Enrollment Guide requires schools to report changes in the student's enrollment status, the effective date of the status, and an anticipated completion date.

Federal Student Aid Handbook (Volume 2, pg. 2-75 and 2-76) states the school is required to report changes in the student's enrollment status, the effective date of the status, and an anticipated completion date. In addition, whether or not a third-party servicer is utilized, the school is ultimately responsible for notifying NSLDS of student enrollment changes.

The Uniform Grant Guidance (2 CFR 200.303) requires the University establish and maintain effective internal control over the Federal awards that provides reasonable assurance the University is managing the Federal award in compliance with Federal statutes, regulations, and the terms and conditions of the Federal award. Effective internal controls should include procedures to ensure changes in enrollment status of required students are reported accurately.

CAUSE

University Officials stated the six identified instances involved student enrollment status changes that fell outside the parameters for automatic inclusion in the University's regular enrollment status reports. The necessary manual updates were not made timely due to turnover within the department and challenges arising from the transition to a remote working environment as a result of the global pandemic.

POSSIBLE ASSERTED EFFECT

If the enrollment status is not being reported correctly to the NSLDS, the University is at risk of noncompliance. (Finding Code No. 2021-002, 2020-002, 2019-001, 2018-003, 2017-006)

STATISTICAL SAMPLING

This sample was a statistically valid sample.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

RECOMMENDATION

We recommend the University establish and maintain internal controls to ensure enrollment status is being correctly reported to the NSLDS.

UNIVERSITY RESPONSE

Accepted. The University has modified its business processes to ensure better training, oversight, and documentation for student enrollment reporting, and to increase communication and collaboration between the responsible campus business units to ensure compliance. The University has also engaged consultants with expertise in student enrollment reporting requirements and the University ERP system to conduct a comprehensive business process and technical review. The University will review the NSLDS Enrollment Reporting Guide on an periodic basis to ensure compliance with new or updated regulations. These expanded efforts will enable the University to ensure strict compliance with its statutory obligation to report student enrollment to NSLDS® accurately and timely.

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

Finding 2021-003 - Information Technology Risk Assessment Not Performed

Federal Agency: U.S. Department of Education (USDE)

Program Name: Student Financial Assistance Cluster

Federal AL Number and Program Expenditures: 84.007/84.033/84.063/84.268/84.379 (\$108,119,173)

Award Numbers: P007A161243/P033A161243/P063P161370/P268K171370/P379T171370

Questioned Costs: None

CONDITION FOUND

Northern Illinois University (the University) did not document required information technology risk assessments related to student information security.

As a requirement under the University's Program Participation Agreement with the U.S. Department of Education, the University must protect student financial aid information. However, during our testing, we noted the University did not conduct a risk assessment identifying internal and external risks to the security, confidentiality, and integrity of the student's information.

CRITERIA OR REQUIREMENT

The Standards for Safeguarding Customer Information, required by the Gramm-Leach-Bliley Act (GLBA) (16 CFR §314.4(b)), require the University to identify reasonably foreseeable internal and external risks to the security, confidentiality, and integrity of customer information that could result in the unauthorized disclosure, misuse, alteration, destruction, or other compromise of such information, and assess the sufficiency of safeguards in place to control these risks. At a minimum, such a risk assessment should include consideration of risk in each relevant area of operations, including:

- (1) Employee training and management;
- (2) Information systems, including network and software design, as well as information processing, storage, transmission, and disposal; and
- (3) Detecting, preventing, and responding to attacks, intrusions, or other system failures.

Additionally, the Uniform Grant Guidance (2 CFR 200.303 (a)) requires nonfederal entities receiving federal awards establish and maintain effective internal control designed to reasonably ensure compliance with Federal laws, statutes, regulations and the terms and conditions of the Federal award.

The *Security and Privacy Controls for Information Systems and Organizations* (Special Publication 800-53, Fifth Revision) published by the National Institute of Standards and Technology, Risk Assessment section, requires entities to conduct risk assessments to identify threats and vulnerabilities and determine the likelihood and magnitude of harm to the organization's operations and assets.

CAUSE

University management stated due to the timing of when the University was notified of the audit deficiency and the start of the next audit cycle, there was insufficient timing to conduct a comprehensive risk assessment to fully resolve this finding.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

POSSIBLE ASSERTED EFFECT

Without performing an adequate comprehensive risk assessment, the University is at risk of noncompliance with the GLBA. In addition, there is a risk that University systems and information could be vulnerable to attacks or intrusions, and these attacks may not be detected in a timely manner. (Finding Code No. 2021-003, 2020-004)

STATISTICAL SAMPLING

This sample was not intended to be, and was not, a statistically valid sample.

RECOMMENDATION

We recommend the University perform and document a comprehensive risk assessment identifying internal and external risks to the security, confidentiality, and integrity of the students' information. In addition, we recommend the University ensure proper safeguards are in place to ensure the security of student information.

UNIVERSITY RESPONSE

Accepted. The University currently has safeguards in place that ensure the security of student information and has designated an individual to coordinate its information security program. The University has begun the process of conducting a comprehensive risk assessment identifying internal and external risks to the security, confidentiality, and integrity of student's information and will document safeguards in place to ensure the security of student information.

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

Finding 2021-004 – Higher Education Emergency Relief Fund Reporting

Federal Agency: U.S. Department of Education (USDE)

Program Name: Education Stabilization Fund

Federal AL Number and Program Expenditures: 84.425C/84.425E/84.425F (\$24,194,617)

Award Numbers: P425F202766/P425E200392/P425F202766-20A/P425F202766-20B/21GEERNIU/21RFP06/21-4998-EC

Questioned Costs: None

CONDITION FOUND

Northern Illinois University (University) did not have adequate procedures in place to ensure the proper Higher Education Emergency Relief Fund (HEERF) reporting requirements were posted timely.

During our testing of reporting requirements for HEERF programs, we noted for the student aid portion the University did not timely post a subsequent 45-day report due on July 11, 2020. This report was posted 11 days late on July 22, 2020. Additionally, the University did not timely post a required quarterly report covering July 1, 2020, through September 30, 2020, due October 10, 2020. This report was posted 18 days late on October 28, 2020.

CRITERIA OR REQUIREMENT

According to an electronic announcement (EA) by the Department of Education (ED) on May 6, 2020, the ED required institutions that received a HEERF 18004(a)(1) Student Portion Aid award to publicly post certain information on their website no later than 30 days after award, and update that information every 45 days thereafter by posting a new report. On August 31, 2020, the ED revised the EA with 85 FR 53802, which decreased the frequency of subsequent reporting from every 45 days to 10 days after every calendar quarter.

Uniform Grant Guidance (2 CFR 200.303) requires nonfederal entities receiving Federal awards establish and maintain internal controls deigned to reasonably ensure compliance with Federal laws, regulations, and program compliance requirements. Effective internal controls should include procedures to ensure reports are posted timely.

CAUSE

University Officials stated Due to the instability and uncertainty about future HEERF reporting timelines, and a change in reporting timeline mid-stream, NIU posted two HEERF student reports later than required.

POSSIBLE ASSERTED EFFECT

Without proper program reporting policies and procedures, the posting of late reports results in noncompliance with Federal regulation and could result in the loss of future funding. (Finding Code No. 2021-004)

STATISTICAL SAMPLING

This sample was not intended to be, and was not, a statistically valid sample.

RECOMMENDATION

We recommend the University review and update current policies and procedures to ensure HEERF program reporting requirements are completed timely.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Current Findings – Federal Compliance and Questioned Costs For the Year Ended June 30, 2021

UNIVERSITY RESPONSE

Accepted. The University is committed to reviewing and posting all required HEERF reporting on-time. In August 2020, the Department of Education issued guidance to eliminate the 45-day reporting requirement which decreased the frequency of subsequent reporting from every 45 days to 10 days after every calendar quarter. In addition, HEERF reports are required to be compiled and submitted to the Department of Education by email in addition to posting on the University's website, which further documents the submission date. University Officials meet as needed to discuss reporting requirements, deadlines, and interpretations of regulations to ensure timely reporting.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Prior Findings Not Repeated For the Year Ended June 30, 2021

Federal Compliance

A. Inadequate Controls over Awarding of Direct Loans

During the prior audit, Northern Illinois University (the University) did not appropriately re-evaluate student financial need after the fall semester.

During the current audit, we noted the University strengthened its controls over the re-evaluation of student financial need. Similar exceptions were not noted during our current year sample testing. (Finding Code No. 2020-003)

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2021

Federal Grantor/Pass-Through Grantor Program/Grant Title	Federal Assistance Listing (AL) Number	Federal Project or Pass- Through Number	FY 2021 Expenditures	To Subrecipients
U.S. DEPARTMENT OF EDUCATION				
STUDENT FINANCIAL ASSISTANCE CLUSTER				
Federal Supplemental Educational Opportunity Grants	84.007	* P007A161243	\$ 1,304,086	\$ -
Federal Work-Study Program	84.033	* P033A161243	317,233	-
Federal Pell Grant Program	84.063	* P063P161370	25,222,073	-
Federal Direct Student Loans Program (Perkins), Beginning Loan Balance	84.268	*	5,141,409	-
Federal Direct Student Loans Program (Perkins), New Loans	84.268	*	-	-
Federal Direct Student Loans Program (Perkins), Administrative Cost Allowance	04.200	*	-	-
Federal Direct Student Loans	04.200	* P268K171370	76,028,483	-
Teacher Education Assistance for College and Higher Education Grants	84.379	* P379T171370	105,889	
TOTAL STUDENT FINANCIAL ASSISTANCE CLUSTER			108,119,173	<u> </u>
CORONAVIRUS AID. RELIEF. AND ECONOMIC SECURITY ACT Higher Education Emergency Relief Fund (HEERF)				
HEERF Student Aid Portion (COVID-19)	84.425E	* P425F202766	8,088,436	_
HEERF Institutional Portion (COVID-19) - CRRSSA	84.425E	* P425F202766 - 20A	13,619,279	
HEERF Institutional Portion (COVID-19) - ARP	84.425F	* P425F202766 - 20B	13,019,279	-
HEERF Institutional Portion (COVID-19) - GEER I		* 21GEERNIU	2,174,414	-
	01.1200	Erabbiano		-
HEERF Institutional Portion (COVID-19) - GEER II HEERF Institutional Portion (COVID-19) - GEER III	04.4250	* 21RFP06 * 21-4998-EC	308,168 6,320	-
	04.4250	21-4770-10		
TOTAL CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT			24,196,617	<u>-</u>
FOTAL U.S. DEPARTMENT OF EDUCATION			132,315,790	
RESEARCH AND DEVELOPMENT CLUSTER DEPARTMENT OF AGRICULTURE Agricultural Research_Basic and Applied Research				
USDA Identification of Regulatory Genes in A. Flavus and A. Nidulansinvolved in				
Mycotoxin Product	10.001	58-6054-9-009	33,816	
Grants for Agricultural Research, Special Research Grants				
Pass-Through Kansas State University Department of Defense Family Advocacy Program FASOR	10.200	S18065	421,640	
TOTAL DEPARTMENT OF AGRICULTURE			455,456	-
National Oceanic and Atmospheric Administration Weather and Air Quality Research Tornadoes and Mobile Homes: An Inter-science Approach to Reducing Vulnerabilities and Improving Capacities for the Southeast's Most Susceptible Population	11.459	NA170AR4590192	3,234	
Measurement and Engineering Research and Standards Characterization and standardization of in-situ powder flow monitoring methods for directed energy deposition	11.609	70NANB19H149	60,002	
Manufacturing Extension Partnership				
Pass-Through Illinois Manufacturing Extension Center				
FY20 IMEC Partnership	11.611	IMECDOC2020	323,467	-
IMEC-NIU Senior Design Collaboration	11.611	IMECSEN2021	73,179	-
IMEC - FY21	11.611	IMECFY2021	987,361	<u> </u>
			1,384,007	·
TOTAL DEPARTMENT OF COMMERCE			1,447,243	
DEPARTMENT OF DEFENSE				
Departmnt of Defense				
Pass-Through Knowesis, Inc Air force Medical Readiness Agency's Mental Health Resilience Program	12.000	FA805219CA101	379,728	-
Pass-Through University of Chicago QAOA for Max-Cut on a 2D neutral atom processor	12.000	HR001120C0068	26,313 406,041	-
Social Sim Modeling Repast HPC Programming Support	12.999	FA865018C7823	138,919	
TOTAL DEPARTMENT OF DEFENSE			544,960	
DEPARTMENT OF THE INTERIOR Joint Fire Science Program				
Restoring historic disturbance regimes: Avian conservation ecology in the midst of bison reintroduction, prescribed fire, and eastern tallgrass prairie restoration	15.232	D012020	3,821	
State Wildlife Grants				
Inventory of Amphibian & Reptile - Green River Conservation Area	15.634	T-111-R-1	7,641	-
IL Blanding's Turtle Recovery Planning and Implementation	15.634	RC21T136R1	33,504	
			41,145	
Great Lakes Restoration				
Status & Population Viability Assessment of the Blanding's Turtle within the Chiwaukee-				
Illinois State Beach	15.662	F16AP01040	5,464	·
TOTAL DEPARTMENT OF THE INTERIOR			50,430	-
TO TAL DELAKTMENT OF THE INTERIOR			30,430	·

A Component Unit of the State of Illinois

FEDERAL SINGLE AUDIT

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2021

Federal

	Assistance			
eral Grantor/Pass-Through Grantor Program/Grant Title	Listing (AL)	Federal Project or Pass-	FY 2021	To Subaccinicato
riogram/Grant litte	Number	Through Number	Expenditures	To Subrecipients
DEPARTMENT OF IUSTICE				
National Institute of Justice Research, Evaluation, and Development Project Grants Development of Next Generation Fingermark Lifters and on-the-spot visualization devices	16.560	2017-DN-BX-0167	\$ 158,329	<u>\$ 93,349</u>
rants to Encourage Arrest Policies and Enforcement of Protection Orders Program Pass-through Winnebago County				
Domestic Violence Homicide Prevention Demonstration Initiative (DVHPDI)	16.590	2016-HI-AX-K002	158,921	
OTAL DEPARTMENT OF JUSTICE			317,250	93,349
ATIONAL AERONAUTICS AND SPACE ADMINISTRATION cience				
The Study of phototrophic oxygen production on Earth and exoplanets	43.001	80NSSCC19K0478	74,458	-
Pass-Through California Institute of Technology Jet Propulsion Laboratory Subcontract	43.001	1646679	20,000	-
Engineering-in-Residence	43.001	1656873	<u>26,708</u> <u>121,166</u>	
ffice of STEM Engagement			121,100	
Pass-Through University of Illinois National Space Grant College and Fellowship Program: Artemis Student Challenge	43.008	100143-17930	52,105	-
NIU/ISGC NASA Internships	43.008	099286-17926	15,877	-
NIU/IGSC NASA Internships, Fellowships, & Scholarships, STEM Engagement, Institutional Engagement, Educator Professional Development Project	43.008	078131-17628	37,978	
			105,960	
OTAL NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			227,126	
IATIONAL SCIENCE FOUNDATION ingineering Grants				
Collaborative Research: Design of a Novel Photo-Thermo-Catalyst for Enhanced Activity				
and Stability of Dry Reforming of Methane RAPID: Collaborative Research: Agent-based modeling toward effective testing and contact-	47.041	1924574	48,118	-
tracing during the COVID-19 pandemic Pass-Through New York University	47.041	2027988	25,038	-
Causal Relationships Underlying the Collective Dynamic Behavior of Swarms Pass-Through Purdue University Northwest	47.041	1433670	1,164	-
CloudMEMS: Cybermanufacturing of Micro-Electro-Mechanical Systems	47.041	10001466-005	<u> </u>	<u> </u>
fathematical and Physical Sciences	17.010	1500015	. <u> </u>	
Searching for New Phenomena with Leptons Accelerator Science for Storage Ring measurements of Electric Dipole Moments of	47.049	1506017	827	-
Subatomic Particles Phenomelogy of Electroweak Symmetry Breaking, Supersymmetry, and the Frontiers of the	47.049	1623691	7,740	-
Standard Model	47.049	1719273	11,635	-
REU Site: Undergraduate and teacher research in physics at NIU Fundamental Study of Dopants Effect for Stable Hybrid Perovskite Materials	47.049 47.049	1757597 1806152	55,384 70,003	-
Searches for New Phenomena at the Energy Frontier	47.049	1806639	328,223	-
Collaborative Research: Second-Order Variational Analysis in Structured Optimization and Algorithms with Sensitivity Analysis	47.049	1816449	31,356	_
EAGER: Controlling Photochemistry via Spatially Selective Excitation	47.049	1901671	(314)	-
Frustration and Crystallization of Vortices in Artificial Spins/Superconductor Hybrids	47.049	1901843	81,846	-
Development of Controlled Polymerization for Hierarchically Organized Conjugated Polymers	47.049	2004117	159,152	-
Superelectrophiles in the synthesis of materials for organic -based electronics Phenomenology of Electroweak Symmetry Breaking, Supersymmetry, and the Frontiers of	47.049	1955584	58,691	-
the Standard Model	47.049	2013340	42,050	-
Pass-Through Research Foundation for SUNY US ATLAS Operations (flow-through Stony Brook)	47.049	PHY-1624739	211,897	-
Pass-Through Research Foundation for SUNY US ATLAS - Research & Development (flow-through Stony Brook)	47.049	1624739	8,330	-
Pass-Through from Cornell University Optical Transport and Beam Manipulation for Optical Stochastic Cooling	47.049	75548-11307	55,234	-
Pass-Through from Columbia University ATLAS Detector Upgrade Production for High-Luminosity LHC	47.049	PHY-1948993	13,654	
eosciences			1,135,708	
Holecene Precipitation Changes	47.050	1502989	794	-
Collaborative Proposal: REU Site: Water Quality and Tourism in the Reviera Maya, Mexico The Role of Mesoscale Convective System Precipitation in the Hydroclimate of the	47.050	1560045	20,434	-
Conterminous United States Collaborative Research: Observed and Future Dynamically Downscaled Estimates of	47.050	1637225	89,895	19,857
Precipitation Associated REU Site: Collaborative Research: Water Resources and Quality in the Riviera Maya, Mexico	47.050 47.050	1800582 1852290	1,803 158,710	-
Collaborative Research: Transient Forcing of the Local Last Glacial Maximum in the				
Tropical Peruvian Andes Collaborative Research: Advancing our understanding of intraseasonal U.S. severe	47.050	2002541	24,806	-
convective storm variability Pass-Through Columbia University	47.050	2048770	16,918	-
Participation of Justin Dodd on Expedition 374	47.050	OCE 1450528	7,625	-
Pass-Through Columbia University		OCE 1450528	10,480	
Pass-Through Columbia University Participation of Reed Scherer on IODP Expedition #379	47.050	OCE 1450528	331 465	10.957
Participation of Reed Scherer on IODP Expedition #379 computer and Information Science and Engineering	47.050	UCE 1450526	331,465	19,857
Participation of Reed Scherer on IODP Expedition #379 computer and Information Science and Engineering Inclusive Design for Engaging All Learners (IDEAL) Designing Technology for Cultural				19,857
Participation of Reed Scherer on IODP Expedition #379 Computer and Information Science and Engineering	47.050 47.070 47.070	1839194 2002082	<u>331,465</u> (8,328) 53,081	19,857
Participation of Reed Scherer on IODP Expedition #379 Computer and Information Science and Engineering Inclusive Design for Engaging All Learners (IDEAL) Designing Technology for Cultural Brokering Visualizing Data Relationships Across Multiple Views Cues and Actions for Efficient non-verbal human-robot Communication	47.070 47.070 47.070	1839194 2002082 2033918	(8,328) 53,081 13,405	19,857
Participation of Reed Scherer on IODP Expedition #379 Computer and Information Science and Engineering Inclusive Design for Engaging All Learners (IDEAL) Designing Technology for Cultural Brokering Visualizing Data Relationships Across Multiple Views	47.070 47.070	1839194 2002082	(8,328) 53,081	19,857

A Component Unit of the State of Illinois

FEDERAL SINGLE AUDIT

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2021

eral Grantor/Pass-Through Grantor Program/Grant Title	Federal Assistance Listing (AL) Number	Federal Project or Pass- Through Number	FY 2021 Expenditures	To Subrecipients
Biological Sciences				
Dimensions NASA: Collaborative Research: The biogeography and evolution of drought	47.074	1242702	¢ 27.252	¢
tolerance in grasses Collaborative Research: RoL: Impacts of plants and communities on soil microbial	47.074	1342782	\$ 27,352	\$ -
composition and function across phylogenetic scales	47.074	1937232	63,462	-
MRI: Acquisition of a Zeiss LSM 900 with Airyscan 2	47.074	2018748	252,467	-
Collaborative Research: The Roles of Community Assembly and Consumer Impacts in Shaping Ecosystem Function	47.074	2016322	16,164	
			359,445	-
ocial, Behavioral, and Economic Sciences				
CAREER: Assessing Long Term Social, Cultural, and Political Impacts of the Depart of INGOs in				
Rural Haiti Scholars Award: Understanding iconoclastic violence through the early science of optics	47.075 47.075	1455142 1755099	22,936 (742)	-
Collaborative Research: Identifying Reproducible Research using Human-in-the-loop	47.075	1/33077	(742)	
Machine Learning	47.075	2022443	<u> </u>	
Education and Human Resources Interactive Virtual Laboratory: Using Renewable Energy Experiments to Enhance Student				
Engagement in STEM	47.076	1712146	46,350	-
Fellowship for Wieteke Holthujzen	47.076	1842161	53,225	-
GeoClick: The Value of Click-on-Diagram Questions in Geoscience	47.076	1835950	184,166	12,643
Collaborative Research: Broadening the fusion of STEM and business curricula in undergraduate sustainability education	47.076	1914909	106,220	-
NSF Fellowship Award for Del Valle, Antonio	47.076	1842161	38,881	-
Collaborative Research: Enhance Design Teamwork Experience in Engineering Education	47.076	2021497	19,356	
Scholarships and Enhanced Mentoring to Support Graduation of Students in Science and Mathematics	47.076	1834076	204,978	_
Pass-through from Louisiana University	47.070	1034070	204,770	
Collaborative Research: Developing a Storyline_Support for Evidence-based Modeling of LT			05 050	
Impacts of Disturbance	47.076	LP201803	<u>95,850</u> 749,026	12,643
Polar Programs Collaborative Proposal: Miocene Extremes: A Ross Sea Perspective from IODP Expedition				
374 and DSDP Leg 28 Marine Sediments	47.078	1947657	22,887	-
Collaborative Research: Testing the Linchpin of WAIS Collapse with Diatoms and IRD in	47.079	1939139	92,477	_
Pleistocene and Late Pliocene Strata of the Resolution Drift	47.078	1939139	115,364	
Office of International and Integrative Activities		1005105	33.007	-
IRES: US-Estonia Research Partnership in Reconstructing Past Climate Dynamics	47.079	1827135	32,006	
	47.079	1827135	2,935,452	32,500
IRES: US-Estonia Research Partnership in Reconstructing Past Climate Dynamics TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY	47.079	1827135		32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program	47.079	1827135		32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with			2,935,452	32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program	47.079 81.049 81.049	DE-SC0020652 DE-SC002123		32,500
OTAL NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization	81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097	2,935,452 38,252 24,393 3,796	32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion	81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588	2,935,452 38,252 24,393 3,796 39,493	32,500
OTAL NATIONAL SCIENCE FOUNDATION Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization	81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097	2,935,452 38,252 24,393 3,796	32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free Electron Lasers and Relavistic Ultra fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications	81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC0018656	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601	<u>32,500</u> - - - - - -
DEPARTMENT OF LENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector RADS : 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems	81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097 DE-SC0008588 DE-SC0018367	2,935,452 38,252 24,393 3,796 39,493 17,553	32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free Electron Lasers and Relavistic Ultra fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications	81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC0018656	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601	32,500
Department of Electron Sources : Numerical Methods and Beam Dynamics at the Precision Formance Sources : Numerical Methods and Beam Sources at the Precision Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC008588 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020241	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211	32,500
TOTAL NATIONAL SCIENCE FOUNDATION PEPARTMENT OF ENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC0018656 DE-SC0020064	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190	32,500
Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC008588 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020241	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 179,177	32,500
Difice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018656 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 179,177	32,500
Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097 DE-SC008588 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796)	32,500
Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045)	32,500
POTAL NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Diffice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors Jt Appt - Swapan Chattopadhyay Structural investigations	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796)	32,500
Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045)	32,500
TOTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector RAD: S-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Depertorment of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors I [Apt - Swapan Chatupadhy ay Structural Investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FC02-03ER46097 DE-SC008588 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A PO 620655 Rev3 4J-30341-0012A 4J-30341-0013A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> 490,666 16,268 (4,796) (112,045) 25,903	32,500
Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Department of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors [LApt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Ugrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0018367 DE-SC0018367 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0013A PO 636821 4J-30341-0012A	2,935,452 38,252 24,393 3,776 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 8,878 29,474	32,500
COTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Development of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors [I Appt - Swapan Chatopadhyay Structural Investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A 4J-30341-0012A 4J-30341-0013A PO 636821	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 8,878	32,500
COTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Difice of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Pepartment of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors [LApt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL), LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for Ilthum batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 - 8,878 29,474 (170) 78,405 10,327	32,500
POTAL NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors [It Appt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Lurnosity (HL) LH C CMS Detector Ubgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of Innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Clatz, Joint Appointment	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000	DE-SC0020652 DF-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC002064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> (4,796) (112,045) 25,903 5,903 -1,25,903 -	32,500
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Protat NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors JtAppt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of Innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High pressure effects on NV centers in diamonds	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC008588 DE-SC0018367 DE-SC0018656 DE-SC002064 DE-SC0020241 A-20-0036-001 PO 608549 41-30341-0002A 41-30341-0012A 41-30341-0012A 41-30341-0022A 41-30341-0022A 41-30341-0022A 41-30341-0022A 41-30341-0022A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 8,878 8,878 29,474 (170) 78,405 10,327 920 (81) 25,182 10,408	32,500
Protect NATIONAL SCIENCE FOUNDATION PERMENT OF ENERGY Diffece of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D 5: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Synthesis and characterization of Fe-based pnictide superconductors J (Apt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of MultiFerroic and Functional Oxides Cycling stable electrode interfaces for Ilthium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Development Time-Jomanian Interferometry High pressure effects on NV centers in diamonds High Luminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter Suchas Single Corystal Growth and Diffraction Studies of MultiFerroic and Functional Oxides force in a stable electrode functional Studies of MultiFerroic and Punctional Oxides High Leminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter Andreas Glatz, Joint Appointment Development of Innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint A	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000	DE-SC0020652 DE-SC002123 DE-FG02-03ER46097 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903	32,500
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COTAL NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Pepartment of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors [LApt]-Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of MultiFerroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of Innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High pressure effects on NV centers in diamonds High Luminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter FNAL-funded Mechanical Engineering Project for Assistant Professor Salehinia Graduats student support in Lead Battery Science Research USATLAS Post-Doc Support/ANL	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000	DE-SC0020652 DE-SC002123 DE-FG02-03ER46097 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A 4J-30341-0027A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903	32,500
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COTAL NATIONAL SCIENCE FOUNDATION PAPALTENT OF ENERGY Diffect of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Synthesis and characterization of Fe-based pnictide superconductors [LApt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Fluorocarbon monolayers High Performance Time-domain Interferometry High presone Time-domain Interferometry High pressure effects on NV centers in diamonds High Luminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High pressure effects on NV centers in diamonds High Luminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter FNAL-funded Mechanical Engineering Project for Assistant Professor Salehinia Graduate student support in Lead Battery Science Research US ATLAS Post-Do Support/ANL Engineering Design of Data in support of Muon g-2	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000	DE-SC0020652 DE-SC002123 DE-FG02-03ER46097 DE-SC0018367 DE-SC0018367 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0013A PO 636821 4J-30341-002A 4J-30341-002A 4J-30341-002A PO 650832 FRLA229 PO 652182 4J-30341-0028A SUBCONTRACT 654699 DE-AC02-07CH11359 4J-30341-0028A SUBCONTRACT 654699 DE-AC02-07CH11359 4J-30341-0028A SUBCONTRACT 654699 DE-AC02-07CH1359 4J-30341-0028A	2,935,452 38,252 24,393 3,776 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 .8,878 29,474 (170) 78,405 10,327 920 (81) 25,182 10,408 188,262 13,467 20,103 35,309 (769)	
 COTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Bays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors It Appt - Swapan Chatbognadhyay Structural investigations System Software Integration and Development High Leninosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Development of innovative high-energy magnetized electron cooling	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000	DE-SC0020652 DF-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0008588 DE-SC0018367 DE-SC002064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0012A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30341-00	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 - - - - - - - - - - - - -	
 COTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF EIRERY Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Synthesis and characterization of Fe-based pnictide superconductors JLApt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of MultiFerroic and Functional Oxides Gycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High pressure effects on NV centers in diamonds High pressure effects on NV centers in diamonds High pressure effects on Supp	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.000	DE-SC0020652 DE-SC002123 DE-FG02-03ER46097 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30341-0037A 4J-3034	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 - 8,878 29,474 (170) 78,405 10,327 920 (81) 25,182 10,408 188,262 13,467 20,103 35,309 (769) - 3,176 26,945 25,271	32,500
COTAL NATIONAL SCIENCE FOUNDATION EPARTMENT OF ENERGY Office of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERI-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Department of Energy Managed Labs Development of the MUZE Preliminary Design Synthesis and characterization of Fe-based pnictide superconductors It Apt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of Multiferroic and Functional Oxides Cycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High Luminosity (HL) LHC CMS Detector Upgrade Project Endcap Calorimeter FNAL-funded Mechanical Engineering Project for Assistant Professor Salehinia Graduate student support in Lead Battery Science Research US ATLAS Post-Doc Support/ANL Engineering Design of Mu2e Degrader Modeling and Analysis of Data in support of Muon g-2 Development of adamping-ring-free electron injector for Future Linear	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.009 81.000	DE-SC0020652 DE-SC0021123 DE-FG02-03ER46097 DE-SC0008588 DE-SC0018367 DE-SC002064 DE-SC0020064 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 6608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30407A	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 179,177 490,666 (12,045) (112,045) (112,045) (112,045) (112,045) 10,327 10,327 10,327 10,327 10,327 (170) 78,405 10,327 10,327 (170) 78,405 10,325 (170) 78,405 10,325 (170) 78,405 10,325 (170) 78,405 10,325 (170) 78,405 (170) 78	
 COTAL NATIONAL SCIENCE FOUNDATION DEPARTMENT OF EIRERY Diffee of Science Financial Assistance Program Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Pree-Electron Lasers and Relavistic Ultra-fast Ele Detector R&D: 5-D Dual-readout Calorimetry for Next Gen HEP Polarized X-Rays as a Probe of Spin Polarization Studies of Conventional & ERL-Based Recirculator Electron Cooling for an Electron Ion High-current electron sources for superconducting radiofrequency injectors Phase space tailoring and cooling of charged particle beams for energy and intensity frontier applications Nonlinear Dynamics of Integrable Hamiltonian Systems High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier Pass-Through from Illinois Institute of Technology Chicagoland Accelerator Science Traineeship Synthesis and characterization of Fe-based pnictide superconductors JLApt - Swapan Chattopadhyay Structural investigations System Software Integration and Development High Luminosity (HL) LHC CMS Detector Upgrade Project - Endcap Calorimeter Synthesis, Single Crystal Growth and Diffraction Studies of MultiFerroic and Functional Oxides Gycling stable electrode interfaces for lithium batteries with covalently bonded fluorocarbon monolayers High Performance Computing Research Development of innovative high-energy magnetized electron cooling for an electron-ion collider Andreas Glatz, Joint Appointment Deep Underground Neutrino Experiment (DUNE) Nuclear Resonance Time-domain Interferometry High pressure effects on NV centers in diamonds High pressure effects on NV centers in diamonds High pressure effects on Supp	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.0000 81.0000 81.0000 81.0000 81.0000 81.0000 81.0000 81.00000 81.0000	DE-SC0020652 DE-SC002123 DE-FG02-03ER46097 DE-SC0018656 DE-SC0018656 DE-SC0020064 DE-SC0020241 A-20-0036-001 PO 608549 4J-30341-0002A PO 620655 Rev3 4J-30341-0012A 4J-30341-0012A 4J-30341-0012A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0022A 4J-30341-0027A 4J-30341-0037A 4J-3034	2,935,452 38,252 24,393 3,796 39,493 17,553 98,601 42,190 47,211 <u>179,177</u> <u>490,666</u> 16,268 (4,796) (112,045) 25,903 - 8,878 29,474 (170) 78,405 10,327 920 (81) 25,182 10,408 188,262 13,467 20,103 35,309 (769) - 3,176 26,945 25,271	32,500

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2021

eral Grantor/Pass-Through Grantor Program/Grant Title	Federal Assistance Listing (AL) Number	Federal Project or Pass- Through Number	FY 2021 Expenditures	To Subrecipien
Synthesis and characterization of superconducting pnictide materials	81.000	4J-30341-0043A	\$ 63,247	\$
Investigating the electrolyte solvation behavior for battery materials	81.000	4J-30341-0042A	21,000	· .
Joint Appointment	81.000	PO 668884	120,504	
Development of the MUZE Preliminary Design	81.000	665988	142,257	-
X-ray Photon Correlation Spectroscopy (XPCS) and Grazing Incidence x-ray scattering (GIXS)	81.000	4J-30341-0044A	11,453	•
Deep Underground Neutrino Experiment (DUNE)	81.000	DE-AC02-07CH11359	87,222	•
Development of innovative high-energy magnetized electron cooling for an electron-ion collider	81.000	PO 665017	18,755	•
System Software Integration and Development	81.000	4J-30341-0046A	186,743	•
Fundamental Studies on the Scalable Synthesis of Electrocatalysts under Microfludics Fundamental understanding on the interaction between Pt-alloy electrocatalysts and porous	81.000	4J-30341-0045A&0045B	35,792	•
carbon	81.000	4J-30341-0047A	44,069	
Joint Appointment for Tao Li	81.000	LI ANL PIOT ANL	86,123	
Jt Appt Philippe Piot 2 year award Northern Illinois University Support for Project: Next-Generation High Temperature Compact	81.000	FIGTANE	64,031	
Heat Exchanger Developed Using Additive Manufacturing Techn	81.000	236946	36,727	
Xiao Joint Appointment FY21 & FY22	81.000	XIAO ANL	128,968	
PIP-II Warm Unit Preliminary Design	81.000	DE-AC02-07CH11359	52,005	
Glatz Jt Appointment FY21	81.000	GLATZ ANL	89,080	
Fabrication and Characterization of Nanomagnets Samples for Creating Local Magnetic Field in				
Diamond Anvil Cell	81.000	4J-30341-0048A	16,898	•
Joint Appointment - Xueying Lu	81.000	LU ANL	40,951	
Modeling support to advance the performance of next-generation batteries at Argonne.	81.000	4J-30341-0049A	25,802	
Resonant Extraction at Fermilab Muon Campus (Support for PhD Program - Aakaash Narayanan)	81.000	DE-AC02-07CH11359	43,159	
Investigating the high concentration electrolyte solvation behavior	81.000	4J-30341-0050A	52,464	
Computational X-ray Spectroscopy (Support for William Baker)	81.000	4J-30341-0051A	7,683	
Support for Grad Student Sugrue	81.000	4J-30341-0053A	12,100	
Investigating the Nano-catalyst with X-ray Technique	81.000	4J-30341-0052A	14,800	
Jt Appt - Michael Syphers	81.000	PO 625565 Rev 1	85,467	-
			1,975,586	
enewable Energy Research and Development				
On-device Lead Detention for Perovskite Solar Cells	81.087	DE-EE0008989	55,868	
OTAL DEPARTMENT OF ENERGY			2,522,120	
PEPARTMENT OF EDUCATION				
epartment of Education				
Pass-Through Rockford School District #205	04.000	D1-2020	21,426	
Scientific Argumentation in Transportable Invention Space	84.000	Rock2020	21,420	
ducation Research, Development and Dissemination	04.005	00051450400	(2 722)	
Testing the on PAR Model in Developmental Literacy Education	84.305	R305A150193	(3,722)	
tatewide Longitudinal Data Systems				
Pass Through Illinois State Board of Education Early Childhood - Return on Investment Study	84.372	433-7615	1,260	
Early Childhood - Return on investment study	64.372	455-7615	1,260	-
TOTAL DEPARTMENT OF FOUCATION			18,964	
TOTAL DEPARTMENT OF EDUCATION			10,504	
DEPARTMENT OF HEALTH AND HUMAN SERVICES Research Related to Deafness and Communication Disorders				
Evaluation of micro-epidermal actuators on flexible substrate for noninvasive, pediatric-				
friendly conductive hearing aid	93.173	R21DC018894-01A1	23,045	
Aental Health Research Grants				
Feasibility of group vs individual self-management of depression using a mobile app	93.242	1R21MH119851-01	156,346	
Mitigating risk from macroeconomic stress on child mental health	93.242	1R21MH122871-01A1	8,035	
	551212		164,381	
ancer Treatment Research Pass-Through from Proton VDA				
A Proton Tomography System for Optimization of Proton Therapy	93.395	1R44CA243939-01A1	301,551	
ardiovascular Diseases Research			100.005	
Sex-Specific mechanisms of exercise underlying resilience to social stress	93.837	1R15HL147179-01A1	128,295	
iomedical Research and Research Training Generation and Biophysical Evaluation of Generic Fab Antibody pH Switches	93.859	R15GM124607	67,471	
The Food Master Initiative	93.859	RGM129216B	179,202	98
Conjugate Addition in the Synthesis of Biologically Active N-Hererocycles	93.859	1R15GM126498-01	117,682	90
A New Approach to Quantitative Analysis of Biomarkers	93.859	1R15GM120498-01 1R15GM135796-01	102,479	
Control of Polarized Basement Membrane Secretion of Epithelial Cells	93.859	1R15GM137236-01	89,554	
Fluorescent Cellular Assay for Kinase Inhibitors	93.859	1R15GM140403-01	18,740	
Fuorescent centual Assay for Knase millionors	93.039	1K15GM140405-01	575,128	98
ging Research				
Septohippocampal neuroplasticity influences on spatial orientation	93.866	R15AG060613-01	81,584	
TOTAL DEPARTMENT OF HEALTH AND HUMAN SERVICES			1,273,984	98,
L RESEARCH AND DEVELOPMENT CLUSTER			9,792,985	224,
CLUSTER				
DEPARTMENT OF EDUCATION				
TRIO Student Support Services				
Student Support Services Program - Regular	84.042	PO42A201866	64,587	
TRIO_Upward Bound				
Upward Bound	84.047	P047A171430	425,445	
FOTAL DEPARTMENT OF EDUCATION			490,032	
IL TRIO CLUSTER			490,032	
E INIC LOSILA			490,032	

A Component Unit of the State of Illinois

FEDERAL SINGLE AUDIT

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2021 Federal

Federal Grantor/Pass-Through Grantor Program/Grant Title	Federal Assistance Listing (AL) Number	Federal Project or Pass- Through Number	FY 2021 Expenditures	To Subrecipients
CCDF CLUSTER				
DEPARTMENT OF HEALTH AND HUMAN SERVICES				
Chafee Education and Training Vouchers Program (ETV) Pass-Through the Department of Children and Family Services				
Educational Access Project FY21	93.599	2275719011.000	\$ 45,959	\$ -
Pass Through the Department of Children and Family Services	03 500	2275710021000	1,640	<u>.</u>
Permanency Enhancement Project FY21 Pass-Through the Department of Children and Family Services	93.599	2275719021.000		
Domestic Violence Intervention Program FY2021 Pass-Through the Department of Children and Family Services	93.599	2646799021	33,771	-
Congregate Care Assessment Program FY21	93.599	2646799031.000	416,562	
TOTAL DEPARTMENT OF HEALTH AND HUMAN SERVICES			497,932	-
OTAL CCDF CLUSTER			497,932	
THER PROGRAMS			497,932	
DEPARTMENT OF AGRICULTURE Child and Adult Care Food Program				
Pass-Through Illinois State Board of Education	10.558	ISBE2020	35,000	
TOTAL DEPARTMENT OF AGRICULTURE			35,000	-
DEPARTMENT OF IUSTICE Grants to Reduce Domestic Violence, Dating Violence, Sexual Assault, and Stalking on Campus				
Northern Illinois University: Violence Prevention Project	16.525	2018-WA-AX-0045	107,884	15,708
TOTAL DEPARTMENT OF JUSTICE			107,884	15,708
DEPARTMENT OF LABOR				
Occupational Safety and Health_Susan Harwood Training Grants				
Susan Harwood Training Program 2019-2020: Targeted Training Program Susan Harwood Training Grants	17.502 17.502	SH05125SH9 SH99022SH0	32,576 84,756	-
-			117,332	
TOTAL DEPARTMENT OF LABOR				
DEPARTMENT OF STATE				
Professional and Cultural Exchange Programs - Citizen Exchanges FY2017 Southeast Asia Youth Leadership Program	19.415	S-ECAGD-17-CA-1025	(2,678)	-
PYLP 2015: Engaging Young Advocates in Environmental Preservation and Peacebuilding	19.415	S-ECAGD 15-CA 1123	(79)	-
FY2017 Southeast Asia Youth Leadership Program PYLP: Engaging Young Advocates in Environmental Preservation and Peacebuilding	19.415 19.415	S-ECAGD-17-CA-1025 S-ECAGD-18-CA-0025	172 (88)	-
Southeast Asia Youth Leadership Program	19.415	S-ECAGD-17-CA-1025	(2,751)	-
PYLP FY 2020 PYLP FY2020	19.415 19.415	SECAGD-18-CA-0025-M001 S-ECAGD-18-CA-0025-M001	29,209 15,250	12,500
Southeast Asia Youth Leadership Program	19.415	S-ECAGD-20-CA-0022	108,249	-
Southeast Asia Youth Leadership Program SEAYLP	19.415 19.415	SECAGD20CA0022 S-ECAGD-20-CA-0022	37,143 49,058	-
PYLP 2020	19.415	SECAGD 20-CA-0022 SECAGD 18CA0025	20,635	-
PYLP 2020	19.415	SECAGD 18CA0025	2,991	-
			257,111	12,500
TOTAL DEPARTMENT OF STATE			257,111	12,500
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Space Shuttle Institute				
Pass-Through Cornerstones of Sciences Library Patron Interest Development	43.001	COS 2020	22,481	-
TOTAL NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			22,481	
NATIONAL ENDOWMENT FOR THE HUMANITIES Promotion of the Humanities Division of Preservation and Access				
Street & Smith Project	45.149	PW-269299	101,792	31,343
TOTAL INSTITUTE OF MUSEUM AND LIBRARY SCIENCES			101,792	31,343
INSTITUTE OF MUSEUM AND LIBRARY SCIENCES				
Museums for America Burma Art Collection Rehousing Project	45.301	MA-30-19-0712-19	113,175	-
TOTAL INSTITUTE OF MUSEUM AND LIBRARY SCIENCES	15.501	MIL 50 17 0712 17	113,175	
DEPARTMENT OF EDUCATION Migrant Education_State Grant Program				
Pass-Through Illinois State Board of Education Migrant Education Program Coordination	0/ 011	220/1601 MV10/F2	619,833	
Migrant Education Program Coordination FY20 Year Round Migrant	84.011 84.011	22041691, MY19452 586-44-0415-4340 F	619,833 690	-
FY20 Summer Migrant	84.011	S011A190013	55,123	-
FY21 Regular Year Migrant FY21 Summer Migration Education Program	84.011 84.011	S011A180013 21-4340-01-16-019-5430-51	37,595 21,928	-
	01.011	51 1010 01-10-017-0450-01	735,169	
Statewide Longitudinal Data Systems Pass-Through Illinois State Board of Education				
ISBE High School to College Success Project	84.372	586-55-0433-7615	77,133	

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT

Schedule of Expenditures of Federal Awards

For the Year Ended June 30, 2021

leral Grantor/Pass-Through Grantor Program/Grant Title	Federal Assistance Listing (AL) Number	Federal Project or Pass- Through Number	FY 2021	
			Expenditures	To Subrecipie
National Resource Centers Program for Foreign Language and Area Studies or Foreign Language				
and International Studies Program and Foreign Language and Area Studies Fellowship Program				
National Resource Center (NRC)	84.015	P015A180131 P015B180131	\$ 221,349 382,725	\$
Foreign Language and Areas Studies Fellowships (FLASF)	84.015	P015B160151	604,074	
Career and Technical Education Basic Grants to States				
Pass-Through Illinois Community College Board Transitional Math - CTE	84.048	F-NIU-CTE19	(280)	
Pass-Through Illinois Community College Board				
Bending the Curve: Early Indicators of Community College Student Success	84.048	CTE-NIU-20	71,785	
Rehabilitation Long-Term Training Preparation of Vision Rehabilitation Therapists and Orientation & Mobility Specialists to Prepare Individuals with Visual Disabilities	84.129	H129P190012.1.1&.2.1	111,745	
Migrant Education_Coordination Program Pass-Through Illinois State Board of Education				
FY20 Summer Migrant Incentive	84.144	S144F190013	2,235	
Special Education - Personnel Development to Improve Services and Results for Children with				
Disabilities				
Program for Training of Teachers and Orientation and Mobility Instructor	84.325	H325K130217	(3,996)	
Project Prevent and Address Bullying (PPAB) for Student with Disabilities: A Multitiered Behavioral Framework	84.325	H325K150309	102,406	
Preparing new teachers of students with visual impairments	84.325	H325K160016	246,171	
Project Fusion: Bringing Together Scholars in Teacher of the Visually Impaired and				
Orientation and Mobility Programs to Serve Children with Visual Imp Project Prevent and Address Bullying Behavior at All Tiers (PPABB) - Training Costs	84.325 84.325	H325K180006 H325K200086	240,102 23,569	
Project Prevent and Address Bullying Behavior at All Tiers (PPABB) - Administrative			42,141	
			650,393	
Child Care Access Means Parents in School				
CCAMPIS 2018	84.335	P335A180233	245,206	
TOTAL DEPARTMENT OF EDUCATION			2,497,460	
DEPARTMENT OF HEALTH AND HUMAN SERVICES				
DEPARTMENT OF HEALTH AND HUMAN SERVICES	00.000			
Native American Indian Child Welfare Advocacy Program ICWA""	93.000	INCCRRA2020	947	
Pass-Through Illinois Network of Child Care Resource & Referral Agencies Development of Alternative Pathways to the Early Childhood Education Credential				
through Competency-Based Online Modules	93.000	90TP001-01-00	44,537	
Pass-Through Illinois Network of Child Care Resource & Referral Agencies				
Child Care Restoration Grant	93.000	INCCRRA-CCRG	375,060	
Pass-Through Illinois Network of Child Care Resource & Referral Agencies Gateways Early Childhood Education Credential Module Pilot	93.000	INCCRRA-GECECMP	50,590	
Gateways Early childhood Education Credential Module Phot	00.000	Internal-decemin	471,134	
Environmental Public Health and Emergency Response				
A Comprehensive Public Health Approach to Asthma Control Through Evidence-Based				
Interventions	93.070	03203001H	17,615	
Substance Abuse and Mental Health Services_Projects of Regional and National Significance				
Pass-Through Winnebago County Regional Planning & Development Research and Evaluations of the Winnebago County Adult Drug Court Program	93.243	1H79TI081068-01	50,846	
	93.243	111/9/1001000-01		
Every Student Succeeds Act/Preschool Development Grants Pass-Through Illinois State Board of Education				
Early Childhood Cost Modeling	93.434	ISBE2020	47,846	
Preschool Development Grant Birth to Five (PDG B-5) IDHS	93.434	FCSZI05598	58,000	
PDG B-5 FY21	93.434	MY20447	<u> </u>	
Affectable Com Act (ACA) - Communication and Activities Provide Communication				
Affordable Care Act (ACA) – Consumer Assistance Program Grants Pass-Through Altarum Institute				
MACRA	93.519	SC-17-008	723	
MACRA: Quality Improvement Direct Technical Assistance	93.519	HHSM-500-2017-0004C	189,607 109,820	
MACRA	93.519	SC-17-008	300,150	
Child Abuse and Neglect Discretionary Activities	00.650	2002	44.102	
II Demonstra Walance Calleration December December Acaletaet Construct	93.670	3083	44,192	
IL Domestic Violence Co-Location Program - Program Assistant Contract				
TOTAL DEPARTMENT OF HEALTH AND HUMAN SERVICES			1,079,157	
			<u> </u>	59,

*Cluster, program, or award tested as a major program. See accompanying independent accountants' report.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Notes to the Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2021

Note 1 Summary of Significant Accounting Policies

The accompanying Schedule of Expenditures of Federal Awards (Schedule) of Northern Illinois University (University) has been prepared on the accrual basis of accounting. The information in this schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). The Schedule does not purport to present the results of operations or the net income or loss for the respective period as would a statement of income or a statement of revenues and expenses. Pass-through entity identifying numbers are presented on the Schedule where available.

Note 2 Nature of Programs

For purposes of the Schedule, federal awards include all grants, contracts, and similar agreements entered into directly between the University and agencies and departments of the federal government and all sub-awards to the University by nonfederal organizations pursuant to federal grants, contracts, and similar agreements. The U.S. Department of Education has been designated as the University's overall cognizant agency for the audit performed in accordance with the requirements of the Uniform Guidance. The U.S. Department of Health and Human Services has been designated as the University's cognizant agency for the Facilities and Administrative Cost Rates. The University did not receive federal noncash assistance during the fiscal year ended June 30, 2021. No federal insurance was received by the University during the year ended June 30, 2021.

Note 3 Cost Allocation

The University has a plan for allocation of common and indirect costs related to grant programs in accordance with Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*. The University allocates amounts to grant programs using an indirect cost rate based on a federally negotiated indirect cost rate agreement, and therefore does not use the 10 percent de minimis rate provided for under the Uniform Guidance.

NORTHERN ILLINOIS UNIVERSITY A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Notes to the Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2021

Note 4Reconciliation of the Schedule of Expenditures of Federal Awards to the Statementof Revenues, Expenses, and Changes in Net Position

The following is a reconciliation of total expenditures as reported on the accompanying schedule of expenditures of federal awards to the operating revenue item of federal and state grants and other contracts and the nonoperating revenue item of Pell grants on the statement of revenues, expenses, and changes in net position included in the University's financial statements:

	(in '	Thousands)
Total expenditures as reported in the Schedule of Expenditures of Federal Awards	\$	147,428
Remove the following: Federal Perkins Loan Program, Beginning Fund Balance		(5,141)
Federal Perkins Loan Program, New Loans Federal Direct Loans Program		- (76,028)
Add the following: Direct state grants/contracts		19.824
		17,021
Total federal and state grants and other contracts, FSEOG, and Pell Grants revenues as reported in the Statement of Revenues, Expenses, and Changes in Net Position	\$	86,083

Note 5 Federal Student Loan Program

During the fiscal year ended June 30, 2021, the University issued new loans to students under the Federal Direct Student Loan Program (FDSLP). The loan program includes subsidized and unsubsidized Stafford Loans, Parents' Loans for Undergraduate Students (PLUS), and PLUS Loans for graduate and professional students. The value of loans issued for the FDSLP is based on disbursed amounts. The loan amounts issued during the year are disclosed on the Schedule. The University is responsible only for the performance of certain administrative duties with respect to the federally guaranteed student loan programs and, accordingly, balances and transactions relating to these loan programs are not included in the University's basic financial statements. Therefore, it is not practicable to determine the balance of loans outstanding to students and former students of the University at June 30, 2021.

The Federal Perkins loan program is directly administered by the University and was considered a revolving loan program whereby collections received on past loans, including interest, is loaned out to current students. The beginning balance on these loans are disclosed in the Schedule. The outstanding balance at June 30, 2021 was \$4,085,000. There were no new loans issued through the Federal Perkins Loan Program during the year ended June 30, 2021. Loans outstanding at the beginning of the year are included in the federal expenditures presented in the Schedule.

While institutions cannot make new loan advances, institutions may continue servicing their Perkins Loan portfolio and may choose to liquidate by assigning all loans to the Department of Education at any time in the future. NIU has selected to service the portfolio and will re-evaluate not less than annually.

A Component Unit of the State of Illinois FEDERAL SINGLE AUDIT Schedule of Federal and Nonfederal Financial Activity For the Year Ended June 30, 2021

Schedule A - Federal Financial Component		
Total federal expenditures reported on SEFA schedule		\$ 147,428
Total new loans made not included on SEFA schedule		-
Amount of federal loan balances at beginning of the year		
(not included on the SEFA schedule) and continued		
compliance required		-
Administrative cost allowance on federal loan programs (not		
included on SEFA schedule)		-
Other noncash federal award expenditures (not included		
on SEFA schedule)		-
Total Schedule A		\$ 147,428
Schedule B - Total Financial Component		
Total operating expenses (from financial statements)	\$ 557,165	
Total nonoperating expenses and losses (from financial statem	14,167	
Total new loans made	76,028	
Amount of federal loan balances at beginning of year	5,141	
Total Schedule B		\$ 652,501
Schedule C	Amount	Percent
Total Schedule A	\$147,428	22.6%
Total nonfederal expenses	505,073	77.4%
Total Schedule B	\$652,501	100%

Loan amounts and associated cost allowances (which reduced expense amounts reported in the financial statements) are included on the SEFA schedule.

These schedules are used to determine the University's single audit costs in accordance with the Uniform Grant Guidance.

See accompanying independent auditors' report.

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