## SUMMARY OF GRANT/CONTRACT AWARDS – FISCAL YEAR 2018

October 1, 2017 – December 31, 2017

<table>
<thead>
<tr>
<th>DOLLARS AWARDED BY SOURCE</th>
<th>THIS REPORT</th>
<th>CUMULATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Government</td>
<td>7,585,192</td>
<td>12,581,805</td>
</tr>
<tr>
<td>State of Illinois</td>
<td>7,567,780</td>
<td>7,681,466</td>
</tr>
<tr>
<td>Corporate</td>
<td>108,747</td>
<td>215,426</td>
</tr>
<tr>
<td>Public/Not for Profit</td>
<td>735,274</td>
<td>1,085,030</td>
</tr>
<tr>
<td>Foreign</td>
<td>0</td>
<td>96,173</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15,996,993</strong></td>
<td><strong>21,659,900</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOLLARS AWARDED BY PURPOSE</th>
<th>THIS REPORT</th>
<th>CUMULATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instruction</td>
<td>144,430</td>
<td>1,531,703</td>
</tr>
<tr>
<td>Research</td>
<td>4,221,761</td>
<td>7,553,571</td>
</tr>
<tr>
<td>Public Service</td>
<td>11,534,939</td>
<td>12,188,064</td>
</tr>
<tr>
<td>Other Sponsored Activities*</td>
<td>95,863</td>
<td>386,562</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15,996,993</strong></td>
<td><strong>21,659,900</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOLLARS AWARDED BY COLLEGE</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business</td>
<td>0</td>
<td>295,684</td>
</tr>
<tr>
<td>College of Education</td>
<td>29,975</td>
<td>690,133</td>
</tr>
<tr>
<td>College of Engineering and</td>
<td>209,686</td>
<td>324,473</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>213,631</td>
<td>236,631</td>
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<tr>
<td>College of Law</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>College of Liberal Arts and</td>
<td>8,311,156</td>
<td>12,517,309</td>
</tr>
<tr>
<td>Sciences</td>
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<td>0</td>
</tr>
<tr>
<td>College of Visual and Performing</td>
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<td>0</td>
</tr>
<tr>
<td>Arts</td>
<td>5,217,427</td>
<td>5,331,113</td>
</tr>
<tr>
<td>Outreach, Engagement, and</td>
<td>2,015,118</td>
<td>2,264,557</td>
</tr>
<tr>
<td>Regional Development</td>
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<td>0</td>
</tr>
<tr>
<td>Other Academic Units</td>
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<td></td>
</tr>
<tr>
<td>Other University Units</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15,996,993</strong></td>
<td><strong>21,659,900</strong></td>
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</tbody>
</table>

ANTHROPOLOGY

Award: $10,000.00.

To determine whether Great Lakes glass trade bead sites may be connected to the historically-documented mid-17th century Wendat diaspora via distinctive compositions.

Award: $122,890.00. (Cumulative $425,460.00).

This project studies the long-term social, cultural, and political impact of international NGO aid in eight rural areas in Haiti, and includes a field school for U.S. graduate students and a NGO Summer Institute and research methods seminar.

BIOLOGICAL SCIENCES

Department of Agriculture for "Identification of Regulatory Genes in A. Flavus and A. Nidulans that are Involved in Mycotoxin Production, Morphogenesis, and Virulence." Ana Calvo.
Award: $25,000.00. (Cumulative $145,703.00).

The purpose of this project is to further the understanding of the signaling pathways involved in the production of mycotoxins, and fungal development and the role of VeA in fungal virulence.

CENTER FOR CHILD WELFARE AND EDUCATION

Illinois Department of Children and Family Services for "Permanency Enhancement Project FY2018." Angela Baron-Jeffrey.
Award: $50,000.00.
July 1, 2017 - June 30, 2018. (Other Sponsored Activities) Public Service.

The purpose of this project is to guide the development and implementation of action plans to improve permanency outcomes and reduce the disproportionate representation of African American children among families served.

Illinois Department of Children and Family Services for "Educational Access Project FY2018." Angela Baron-Jeffrey.
Award: $1,147,816.00.
July 1, 2017 - June 30, 2018. (Other Sponsored Activities) Public Service.

The Educational Access Project promotes academic success for children under the care of the
Illinois Department of Children and Family Services.

CENTER FOR GOVERNMENTAL STUDIES


The purpose of the project is to develop research resources and surveys regarding Community Supported Enterprises.

CENTER FOR P-20 ENGAGEMENT

Illinois Community College Board for "Career and Technical Education (CTE) - Perkins Leadership Grant." Amy Jo Clemens/Kathleen Almy. Award: $30,000.00. September 1, 2017 - September 1, 2018. (Other Sponsored Activities) Public Service.

NIU will provide technical assistance and professional development on curriculum alignment and transitional math pathways through support and facilitation of the state's transitional math panel and Technical Math Committee.


This project aims to promote student readiness for college. NIU will provide technical assistance and professional development on curriculum alignment and transitional math pathways via support and facilitation of the state's transitional math panel.

CENTER FOR THE STUDY OF FAMILY VIOLENCE AND SEXUAL ASSAULT


This project assists the U.S. Air Force to accurately assess child maltreatment and intimate partner violence and implement prevention and treatment.

This project will evaluate the implementation process and impact of the U.S. Department of Justice’s Domestic Violence Homicide Prevention Demonstration Initiative.

Winnebago County for "Winnebago County Adult Drug Court Program." Julie L. Crouch. Award: $18,600.00. (Cumulative $64,100.00). October 1, 2016 - September 30, 2018. (Other Sponsored Activities) Public Service.

The Winnebago County Adult Drug Court Enhancement Project will expand access to evidence-based residential, intensive outpatient, and MAT substance use treatment and enhanced intensive case management/recovery coach support services for 150 offenders.

This project will evaluate the implementation process and impact of the U.S. Department of Justice’s Domestic Violence Homicide Prevention Demonstration Initiative.

CHEMISTRY AND BIOCHEMISTRY


Funds are being used for a joint appointment between NIU and Argonne in support of Dr. Tao Li.


The purpose is to explore a comprehensive understanding of the structural and chemical variations of the supported metal nanoparticles catalysts under high temperature and reaction atmosphere.

COLLEGE OF ENGINEERING & ENGINEERING TECH, DEAN'S OFFICE

Motorola Foundation for "NIU-Enhancing Engineering Pathways: An Integrated Outreach and Mentoring Program to strengthen the STEM pipeline for female students from Middle School to College." Suma Rajashankar/Mansour Tahernezhadi. Award: $40,000.00. August 16, 2017 - June 30, 2018. (Other Sponsored Activities) Public Service.

Funds are requested to establish a sustainable pathway for the middle and high school girls through the Girl Scout Organizations and various school districts to the field of engineering.

COLLEGE OF HEALTH AND HUMAN SCIENCES, DEAN'S OFFICE

NIU will work with Northwestern to conduct interventions in 35 small medical practices in northern Illinois designed to improve the use of health information technology in order to improve practice quality and enhance patient-centered approaches to care.

COMMUNICATION


This project will investigate audience perceptions of automated news-writing programs, sometimes referred to as “robot” reporters.


The proposed project aims to provide an empirical overview of scientific societies’ role in supporting scientists’ public engagement efforts.

COMPUTER SCIENCE


Under DOE's Exascale Computing Project (ECP), student will profile and understand performance proxy applications, what features of the hardware are relevant to the performance of these applications, and how to project the performance on future hardware.


Funds will be used to investigate current simulation technology for quantum computers and, in collaboration with experts in the field, add noise to those simulations.
The NIU team will collaborate with the team at the University of Chicago to develop policies and protocols for deployment of hardware and software and to test and deploy experiments within the NIU testbed as part of the larger Chicago deployment.

COUNSELING, ADULT AND HIGHER EDUCATION

Award: $29,975.00.
October 1, 2017 - September 30, 2018. (Other Sponsored Activities) Other.

The purpose of the project is to develop a statistical analysis of student unit record data within ICCB’s Centralized Data System to examine early leading indicators of undergraduate success.

DIVISION OF RESEARCH AND INNOVATION PARTNERSHIPS, VP'S

Award: $28,594.00. (Cumulative $1,496,944.00).

The purpose of this project is to perform research services directed toward increasing the productivity and global competitive advantage of regionally-based manufacturing and technology-related firms.

Award: $1,844,524.00.

The purpose of this project is to perform research services directed toward increasing the productivity and global competitive advantage of regionally-based manufacturing and technology-related firms.

ELECTRICAL ENGINEERING

Polatomic, Inc for "Tactical Mine Neutralization Magnetometer (TMNM)." Michael J. Haji-Sheikh.
Award: $41,000.00.
This project will consist of a study to develop a magnetometer system that has positional awareness.

ENGINEERING TECHNOLOGY

Volta Energy Technologies, LLC for "Joint Appointment - Volta Energy Technologies." David Schroeder.
Award: $73,064.00. (Cumulative $36,532.00).

The PI will provide technical support to develop and execute task orders between sponsor and Argonne, develop sponsor's investment opportunity pipeline, and perform technical diligence on potential investment opportunities.

GEOGRAPHIC AND ATMOSPHERIC SCIENCES

Award: $49,537.00.

To understand the effects of climate change on mesoscale convective systems and the resulting socioeconimic impacts.

GEOLOGY AND ENVIRONMENTAL GEOSCIENCES

Columbia University for "Participation of Justin Dodd on Expedition 374." Justin Dodd.
Award: $35,412.00.

As inorganic geochemist on the International Ocean Discovery Program, Dr. Dodd will conduct chemical analyses on interstitial water, and/or solid sediment or rock samples.

Temple University for "SL-CN: Understanding and Promoting Spatial Learning Processes in the Geosciences." Nicole LaDue.
Award: $10,461.00. (Cumulative $18,403.00).

The goal of the project is to develop a network for research on education and cognitive psychology that will result in new designs for teaching tools and new insights into the working of the human mind-brain.

GRADUATE SCHOOL, DEAN'S OFFICE

Illinois Board of Higher Education for "Diversifying Higher Education Faculty in Illinois
NIU will serve as Fiscal Agent for IBHE for FY 2018 in administering grants awarded by the Diversifying Higher Education Faculty in Illinois ("DFI") Program Board to fellows at the institution under the DFI Program.

HISTORY

National Endowment for the Humanities/National Foundation on the Arts and Humanities for "Standardizing the Nation: An institutional history of the 1872 Brazilian census and the metric system." Anne G. Hanley.
Award: $6,000.00.

This award will allow the PI to research and draft a concept article about two major events in a single year in Brazil's history: the 1872 implementation of the first national census and adoption of the metric system of weights and measures.

ILLINOIS INTERACTIVE REPORT CARD

Award: $1,750,000.00.
July 1, 2017 - June 30, 2018. (Other Sponsored Activities) Public Service.

Innovation and improvement for FY18 in the MyIIRC (Illinois Interactive Report Card) data portal with respect to continuous improvement planning, information-rich student-level PARCC assessment reports, and 21st Century CLC benchmarking tools.

INDUSTRIAL AND SYSTEMS ENGINEERING

Award: $35,683.00. (Cumulative $149,379.00).

The primary objective for this project is to aid the company to develop a quality management system with an ultimate goal of getting the ISO 13485 certification.

University of Illinois at Chicago Occupational and Environmental Health and Safety Education and Research Center for "Systematic Evaluation of Patient Transfer Devices to Improve Musculoskeletal Health among Caregivers." Jaejin Hwang.
Award: $19,939.00.

Funds are requested to evaluate the effect of four different transfer devices on the muscle
activities and joint torque of the upper extremity and the low back in caregivers during lateral patient transfer.

MATHEMATICAL SCIENCES

Simons Foundation for "Dynamics and Geometry in the Quasi-world." Alastair Fletcher. Award: $7,000.00. (Cumulative $21,000.00). September 1, 2017 - August 31, 2018. (Organized Research) Basic Research.

This project aims to build on existing collaborations and forge new ones in areas of the PI's expertise relating to quasiconformal mappings including, in particular, Teichmüller theory and the iteration theory of quasiregular mappings.

PHYSICS


Funds are requested to explore the design of a GeV-class electron injector capable of attaining electron bunch with the required properties without having to rely on the currently envisioned 6-lm-long damping ring parameters.


Funds are being used, per the NIU-Fermilab Memorandum of Understanding executed in December 2005, to support one-half of the PI's 9-month academic salary as a joint faculty appointee of the Department of Physics and Fermi National Accelerator Laboratory.


Funds are requested to explore the coupling of a high-current electron source to a superconducting accelerator with ultimate goal of forming electron beams with Mega-Watt average power.

Accelerator & Beam Physics group will perform analysis for the formation of electron bunches, study laser pulse-shape optimization, and design & execution of a proof-of-principle experiment aimed at demonstrating the feasibility of the scheme.


Funds are requested to facilitate Fermilab to build the next external beamline for high energy electrons to calibrate detector.

POLITICAL SCIENCE


This program continues and enhances the undergraduate fellowship program by creating a new online journal for undergraduate scholarship and a competitive research for undergraduate scholarship.

PRECOLLEGIATE PROGRAMS

Department of Education for "Upward Bound Program." Felicia R. Bohanon. Award: $12,628.00. (Cumulative $517,748.00). June 1, 2017 - May 31, 2018. (Other Sponsored Activities) Public Service.

Funds will be used to identify, select and serve 120 low-income, potential first generation college students who lack the adequate preparation to successfully pursue a postsecondary education and need academic support.

PSYCHOLOGY


Funding will support the PI's time for methodological consultation on trauma and stress measures and project design, and clinical consultation on the development of an adapted mindfulness-based stress reduction program for 911 telecommunicators.


This project proposes to develop and test a model that specifies the literacy and self-regulation (e.g., motivation and metacognition) skills and processes necessary to become a proficient academic reader in a sample of development education students.


Funds support the Integrated Assessment Program, which provides clinical screening and assessment services to children under the care of DCFS in the northern, central, and southern IA program regions.

PUBLIC ADMINISTRATION

Village of Algonquin for "Management Intern (Esperanza Castellanos)." Denise Burchard. Award: $2,430.00. (Cumulative $18,600.00). July 1, 2017 - May 15, 2018. (Instructional Programs) Instructional Programs.

The purpose of this project is to provide a valuable experiential learning opportunity to a graduate student in NIU's MPA program.

REGIONAL DEVELOPMENT INSTITUTE


NIU will build off its existing work with the Illinois Health Information Technology Regional Extension Center (IL-HITREC) in developing relationships with medical practices to help them achieve clinical transformation.

Award: $337,907.00. (Cumulative $936,732.00).

NIU will build off its existing work with the Illinois Health Information Technology Regional Extension Center (IL-HITREC) in developing relationships with medical practices to help them achieve clinical transformation.

SCHOOL OF HEALTH STUDIES

University of Illinois at Urbana-Champaign for "Lead in Homes with Domestic Wells in Three Illinois Counties." Sarah Dee Geiger.
Award: $3,000.00.

This work will characterize lead levels in water used by families in primarily rural areas of Illinois that obtain water from domestic wells.

STATISTICS

Society of Actuaries for "Multivariate Analysis for Private Pension Plan Mortality Study and Tables." Lei Hua/Chaoxing Xia.
Award: $32,000.00.

The goal of the project is to conduct a multivariate analysis for public pension plan mortality study and tables.