**NORTHERN ILLINOIS UNIVERSITY**  
SPONSORED PROGRAMS ADMINISTRATION  

**SUMMARY OF GRANT/CONTRACT AWARDS – FISCAL YEAR 2017**  

July 1, 2016 – September 30, 2016

<table>
<thead>
<tr>
<th></th>
<th>THIS REPORT</th>
<th>CUMULATIVE</th>
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</thead>
<tbody>
<tr>
<td><strong>DOLLARS AWARDED BY SOURCE</strong></td>
<td></td>
<td></td>
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<tr>
<td>Federal Government</td>
<td>5,813,810</td>
<td>5,813,838</td>
</tr>
<tr>
<td>State of Illinois</td>
<td>6,521,041</td>
<td>6,521,041</td>
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<tr>
<td>Corporate</td>
<td>173,043</td>
<td>173,043</td>
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<tr>
<td>Public/Not for Profit</td>
<td>274,716</td>
<td>274,716</td>
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<tr>
<td>Foreign</td>
<td>91,310</td>
<td>91,310</td>
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<tr>
<td><strong>Total</strong></td>
<td>12,873,920</td>
<td>12,873,920</td>
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| **DOLLARS AWARDED BY PURPOSE** |             |            |
| Instruction             | 1,039,522   | 1,039,522  |
| Research                | 4,496,062   | 4,496,062  |
| Public Service          | 7,191,385   | 7,191,385  |
| Other Sponsored Activities* | 146,951    | 146,951    |
| **Total**               | 12,873,920  | 12,873,920 |

| **DOLLARS AWARDED BY COLLEGE** |             |            |
| College of Business      | 0           | 0          |
| College of Education     | 462,000     | 462,000    |
| College of Engineering and Engineering Technology | 152,142 | 152,142 |
| College of Health and Human Sciences | 303,588 | 303,588 |
| College of Law           | 0           | 0          |
| College of Liberal Arts and Sciences | 9,997,464 | 9,997,464 |
| College of Visual and Performing Arts | 45,550 | 45,550 |
| Outreach, Engagement, and Information Technologies | 34,335 | 34,335 |
| Other Academic Units     | 1,878,841   | 1,878,841  |
| Other University Units   | 0           | 0          |
| **Total**                | 12,873,920  | 12,873,920 |

ANTHROPOLOGY


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: $30,000.00. (Cumulative $120,703.00). June 1, 2016 - May 31, 2017. (Organized Research) Applied Research.

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.


To identify management disturbance effects on species in a restored grassland and to measure changes in the ecosystem function.


To develop a model that will allow partners to identify and prioritize conservation actions and could guide recovery throughout the Blanding's Turtle habitat range in the Chiwaukee Illinois Beach Lake Plain.

CENTER FOR BURMA STUDIES

Asia Foundation for "2016 Burma Studies Conference." Catherine M. Raymond. Award: $8,000.00. August 8, 2016 - October 31, 2016. (Other Sponsored Activities) Conference.

Funds will be used to support the 2016 International Burma Studies Conference, hosted at Northern Illinois University.
CENTER FOR SOUTHEAST ASIAN STUDIES

Department of State for "Leading and Organizing for Change in Southeast Asia." Judy L. Ledgerwood/Nancy M. Castle. Award: $240,000.00. (Cumulative $463,885.00). September 1, 2016 - August 31, 2017. (Other Sponsored Activities) Public Service.

Participants from SE Asia will learn about civic engagement in the US through the study of US history through written resources, visits to historical sites, hands-on volunteering and civic activism, and interaction with inspiring civic leaders.


Funds will continue to be used to support the Center for Southeast Asian Studies.

CENTER FOR THE STUDY OF FAMILY VIOLENCE AND SEXUAL ASSAULT

Winnebago County Regional Planning & Development for "Winnebago County Adult Drug Court Program." Julie L. Crouch. Award: $45,500.00. June 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.

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.

COUNSELING, ADULT AND HIGHER EDUCATION

Substance Abuse & Mental Health Services Administration for "Building Suicide Awareness and Fostering Enhanced Resilience (B-SAFER) at Northern Illinois University." Brooke Ruxton/Carrie Kortegast/Suzanne Degges-White. Award: $102,000.00. September 30, 2016 - September 29, 2017. (Other Sponsored Activities) Public Service.
The major goal of the project is to develop connections between mental health providers on- and off-campus; provide training for the community; and promote the reduction of stigma, an increase in help-seeking, and enhanced resilience.

DIVISION OF RESEARCH AND INNOVATION PARTNERSHIPS, VP'S

Award: $1,584,350.00.

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.

ENGINEERING TECHNOLOGY

Award: $68,437.00.
August 16, 2016 - August 15, 2017. (Organized Research) IPA or Joint Appointment.

Technical consulting and project development for the launch of a technology development and investment firm that will improve the model for developing and advancing early stage technological innovations to be translated into marketable products.

FAMILY, CONSUMER AND NUTRITION SCIENCES

Northern Illinois Food Bank for "Nutrition Education at the Northern Illinois Food Bank."
Josephine Umoren/Thomas Pavkov.
Award: $10,312.00. (Cumulative $40,260.00).

Four graduate students will, under the supervision of NIU faculty, offer nutrition education, needs assessment, and grant writing assistance to the Northern Illinois Food Bank.

GEOLOGY AND ENVIRONMENTAL GEOSCIENCES

National Science Foundation for "Collaborative Proposal: REU Site: Water Quality and Tourism in the Reviera Maya, Mexico." Melissa E. Lenczewski.
Award: $139,297.00.

Funds will be used to engage Latino/as and other students in research projects that link history and culture of the Yucatan Peninsula to modern water issues to develop and encourage those interested in water sciences to be our next leaders in the field.

GRADUATE SCHOOL, DEAN'S OFFICE

Waubonsee Community College for "Support for Graduate Assistants." Bradley G. Bond.
Award: $21,500.00.  

Funds will be used to provide graduate assistantships to two students from NIU's student life unit who will provide support to Waubonsee Community College consistent with their expertise and training goals, under the direction of the Dean for Students.

ILLINOIS COUNCIL ON ECONOMIC EDUCATION

Econ Illinois for "Illinois Council Operation Grant." Nancy H. Harrison.  
Award: $34,335.00. (Cumulative $68,611.00).  
July 1, 2016 - June 30, 2017. (Instructional Programs) Instructional Programs.

Funding is being used to support outstanding teacher training and innovative economic education programs for students.

INDUSTRIAL AND SYSTEMS ENGINEERING

Elgin Industries for "Implementing 5S and Lean Manufacturing at Elgin Industries." Purushothaman Damodaran/Omar A. Ghrayeb.  
Award: $28,524.00.  

This project implements a company-wide organization program based on lean manufacturing principles. The objective is to organize workstations/ departments/ assembly lines to reduce wasted time and effort.

Woodward, Inc. for "Building a Manufacturing Information System for Woodward." Purushothaman Damodaran.  
Award: $11,747.00.  

This project will create standard work procedures for machines and processes at the new Woodward facility in Rockford, to ensure that it can safely and effectively begin to operate at full capacity by 2020.

INTERNATIONAL TRAINING OFFICE

Department of State for "PYLP 2015: Engaging Young Advocates in Environmental Preservation and Peacebuilding." Susan Russell/Lina D. Ong.  
Award: $249,991.00. (Cumulative $499,863.00).  

Exchange program bringing teenagers and adult educators from the Philippines to the U.S. for exposure to/training in civic education, leadership, diversity, and community engagement, and preparation to conduct projects at home that serve a community need.

MECHANICAL ENGINEERING
Award: $22,676.00.

The major goal of this project is to quantify social behavior in animal groups using information-theoretic methods.

Fermi National Accelerator Laboratory for "Engineering Design Support for Muon g-2 Tracker." Nicholas Pohlman.
Award: $10,195.00. (Cumulative $27,835.00).

Funds will be used to mentor the undergraduate and graduate design students while building a new experiment to improve the accuracy of measuring the magnetic moment of the muon particle, referred to as the g-2 state.

Cristal Metals for "Irregular Titanium Powder Build Analysis." Federico Sciammarella.
Award: $10,563.00.

This project will determine the type of microstructure and mechanical properties which can be achieved with titanium powder, for use in direct energy deposition.

MUSIC

Award: $45,550.00.
September 1, 2016 - March 01, 2018. (Organized Research) Basic Research.

Funds will be used to support the PI in research performed as a Fulbright Scholar in Yogyakarta, Indonesia at Gadjah Mada University (UGM).

NURSING

Illinois State Board of Education for "Youth Risk Behavior Survey-ISBE IGA." Arlene Keddie.
Award: $9,641.00. (Cumulative $28,923.00).
July 1, 2016 - June 30, 2017. (Other Sponsored Activities) Public Service.

Funds will be used to undertake work that is designed to make the Youth Risk Behavior Survey and Profiles more user-friendly and easier to disseminate.

PHYSICS

Award: $80,000.00.
Simulation of collisions between strong and a weak proton beams in the High Luminosity Large hadron Collider at CERN to determine whether a wire compensator will mitigate the performance-degrading effects of long-range beam-beam interactions.

National Science Foundation for "Development of Ultra-cold Quantum-degenerate Relativistic Electron Beams for Research and Applications." Swapan Chattopadhyay/Venumadhav Korampally/Bela Erdelyi/Philippe R. Piot. Award: $190,000.00. (Cumulative $370,000.00).

The proposed project will progress theoretical understanding and experimental development of "ultra-cold" relativistic electron beams at its fundamental limit via field-emission from structured nano-materials and subsequent efficient acceleration.

Fermi National Accelerator Laboratory for "Joint Appointment NIU/FNAL." Swapan Chattopadhyay. Award: $138,951.00. (Cumulative $418,902.00).

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

Ion Beam Applications, SA for "Proton Imaging Grant Agreement -Coutrakon/Bertrand." George Coutrakon. Award: $11,310.00.

This project tests the range accuracy of the proton tomography system to determine the quantitative reduction in proton range uncertainties.

Department of Energy for "Studies of Conventional and ERL-Based Recirculator Electron Cooling for an Electron Ion Collider." Bela Erdelyi. Award: $50,000.00. (Cumulative $261,000.00).

Funds are requested to continue the development of PHAD with large-scale parallelization on hybrid architecture computer clusters, enhancing the performance and fidelity of electron cooling simulations.


Funds are requested to develop a Laser-Electron-Interaction region for Compact
High-Repetition-Rate Mono-Energetic Laser-Based Gamma Sources.

Department of Energy for "R&D toward a proof-of-principle experiment on optical stochastic cooling at the Fermilab's IOTA ring." Philippe R. Piot.  
Award: $70,000.00. (Cumulative $140,000.00).  
May 1, 2016 - April 30, 2017. (Organized Research) Basic Research.

The main goal of the proposed research is to finalize the design of a proof-of-principle experiment on optical stochastic cooling to be carried at a compact storage ring in construction at Fermilab.

Award: $129,000.00.  
September 15, 2016 - September 14, 2017. (Organized Research) Basic Research.

The major goal is to theoretically investigate X-ray spectroscopy and scattering on nonequilibrium and decaying systems.

Award: $280,000.00. (Cumulative $560,000.00).  
August 1, 2016 - July 31, 2017. (Organized Research) Basic Research.

The major goal is to search for the coherent neutrino-less conversion of muons to electrons in the presence of a nucleus, and aims to achieve sensitivity of about 2 x 10^-17 on the muon-to-electron rate.

Award: $170,000.00. (Cumulative $340,000.00).  
August 1, 2016 - July 31, 2017. (Organized Research) Basic Research.

The major goal is to search for new laws of physics that may manifest themselves at such extremely high energies as were characteristic of the universe shortly after the Big Bang.

POLITICAL SCIENCE

Award: $13,000.00.  

This award supports the continuation of the undergraduate fellowship program, a special undergraduate spring seminar, and a speaker series.

PSYCHOLOGY

KishHealth System for "Psychology Externship with KishHealth System." Leslie
Matuszewich/Michelle Demaray/Christine E. Malecki.
Award: $6,613.00.
August 16, 2016 - August 15, 2017. (Instructional Programs) Instructional Programs.

Funds will be used for a graduate psychology student externship at KishHealth System.

Illinois Department of Children and Family Services for "Integrated Assessment Program FY17." Laura D. Pittman/Matthew Skarbek.
Award: $6,521,041.00.
July 1, 2016 - June 30, 2017. (Other Sponsored Activities) Public Service.

Funds support the Integrated Assessment Program, which provides clinical screening and assessment services to children under the care of DCFS. This proposal is for the northern, central, and southern IA program regions per DCFS's request to expand.

Award: $13,227.00.
August 16, 2016 - May 31, 2017. (Instructional Programs) Instructional Programs.

The goal of the project is to support a psychology graduate student externship placement with the Homer Community Consolidated School District.

American Psychological Association for "Project Diversify School Psychology." Christine E. Malecki/Nicole Dorio/Kelly Clark.
Award: $8,212.00.
August 1, 2016 - July 31, 2018. (Other Sponsored Activities) Public Service.

This project will create and disseminate program recruitment materials, provide financial incentives to ethnic minority candidates to attend Interview Day, and host a virtual conference to promote diversity in the field of school psychology.

Award: $422,436.00. (Cumulative $940,901.00).

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.

American Psychological Foundation for "Cross-Lagged Relations between Behavioral Inhibition and Inhibitory Control during Early Childhood: Predicting Subsequent Internalizing and Externalizing Problems." Jacob Holzman/David Bridgett.
Award: $20,000.00.

The PI will examine the relationship between behavioral intervention and inhibitory control and
the influence of parenting behaviors on that relationship.


This project supports a graduate psychology student externship at the DeKalb Community Unit School District 428.


The proposed project will prepare 24 highly-qualified, licensed school psychologists with specialized training (a) emphasizing prevention of bullying, especially with students with disabilities; and (b) improving student outcomes by decreasing bullying.

PUBLIC ADMINISTRATION


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


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Invest Aurora for "Invest Aurora Intern (Gladys Sanchez)." Denise Burchard.
Award: $16,170.00.
August 16, 2016 - August 15, 2017. (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.

City of Yorkville for "City of Yorkville Internship." Denise Burchard.
Award: $910.00. (Cumulative $28,210.00).
July 1, 2016 - May 15, 2017. (Instructional Programs) Instructional Programs.

The purpose of this project is to provide a valuable experiential learning opportunity to an NIU graduate student, who will work with the Yorkville City Administrator on administrative projects.

Village of Algonquin for "Management Intern (Esperanza Castellanos)." Denise Burchard.
Award: $16,170.00.
August 16, 2016 - August 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.

SPECIAL AND EARLY EDUCATION

Department of Education for "Low Incidence Personnel Program for Training of Teachers and Orientation and Mobility Instructors of Students with Visual Impairments with Additional Training in Assistive Technology and English Language Learners." Gaylen G. Kapperman/Stacy Kelly/Jodi Sticken.
Award: $250,000.00. (Cumulative $1,000,000.00).
August 16, 2016 - August 15, 2017. (Instructional Programs) Instructional Programs.

The major goal of the program is to train graduate students as teachers and orientation and mobility specialists to serve the needs of blind and visually impaired children in grades P-12.

Department of Education for "Preparing the USA for the UEB: A Massively Open Online Course for Personnel Providing Vocational Rehabilitation Services or Educational Services to Youth and Adults who are Blind." Stacy Kelly/Thomas J. Smith.
Award: $110,000.00. (Cumulative $330,000.00).
October 1, 2016 - September 30, 2017. (Instructional Programs) Instructional Programs.

Development and implementation of a Massively Open Online Course (MOOC) for retraining service providers in the field of visual impairments in schools and rehabilitation settings on the new Unified English Braille program.

STATISTICS

AbbVie Inc. for "AbbVie Research Externship." Alan Polansky.
Award: $53,772.00. (Cumulative $53,772.00).

Funds support research training externships for Statistics students at AbbVie.

UNIVERSITY PRESS

University of Georgia for "Early American Places." Cara Carlson.
Award: $15,000.00. (Cumulative $41,117.00).

Funds will be used by the NIU Press to solicit, review and contract projects that are appropriate to the Early American Places collective series.