NORTHERN ILLINOIS UNIVERSITY  
OFFICE OF SPONSORED PROJECTS  

SUMMARY OF GRANT/CONTRACT AWARDS – FISCAL YEAR 2016  

July 1, 2015 – September 30, 2015

<table>
<thead>
<tr>
<th>DOLLARS AWARDED BY SOURCE</th>
<th>THIS REPORT</th>
<th>CUMULATIVE</th>
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<tbody>
<tr>
<td>Federal Government</td>
<td>4,592,475</td>
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<tr>
<td>State of Illinois</td>
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<tr>
<td>Corporate</td>
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<tr>
<td>Public/Not for Profit</td>
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<tr>
<td>Foreign</td>
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<td>Total</td>
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<td>Instruction</td>
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<td>Research</td>
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<td>Other Sponsored Activities*</td>
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<td>College of Business</td>
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<td>Other Academic Units</td>
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<td>Other University Units</td>
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<tr>
<td>Total</td>
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ANTHROPOLOGY

Department of State for "PYLP 2015: Engaging Young Advocates in Environmental Preservation and Peacebuilding." Susan D. Russell, Susan/Lina D. Ong.
Award: 249,872.00.

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.

BIOLOGICAL SCIENCES

Illinois Association of Environmental Professionals for "Investigating the context-dependent effects of plant mutualists on plant and herbivore performance in a federally endangered legume." Catherine Ausland/Nicholas Barber.
Award: 500.00.
June 1, 2015 - May 31, 2016. (Organized Research) Basic Research.

To determine how elevated soil nutrients influence the direction and strength of these beneficial plant-microbe interactions.

Vietnam Education Foundation for "Graduate Fellowship in Biology for Van Ai Bui." Barrie Bode/Linda S. Yasui.
Award: 28,580.00.
August 15, 2015 - August 14, 2016. (Instructional Programs) Instructional Programs.

Funds will support a graduate fellowship for Ms. Van Ai Bui in the biology department to obtain a Master of Science degree.

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 $90,703.00).

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.

CAMPUS CHILD CARE

DeKalb County Community Foundation for "Replacement of safety gate and room divider in infant classroom." Kristin Schulz.
Award: 504.00.
September 1, 2015 - August 31, 2016. (Other Sponsored Activities) Other.

This project requests funds for the replacement of the safety gate and room divider in the infant classroom.
**CENTER FOR CHILD WELFARE AND EDUCATION**

Illinois Department of Children and Family Services for "FY16 Northern Region Permanency Enhancement Project." Angela Baron-Jeffrey.
Award: 45,000.00.
July 1, 2015 - June 30, 2016. (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.

**CENTER FOR SOUTHEAST ASIAN STUDIES**

Department of Education for "FY2014 Title VI National Resource Centers and Foreign Language and Area Studies Fellowships Program." Judy L. Ledgerwood.
Award: 500,160.00. (Cumulative $1,007,820.00).
August 15, 2015 - August 14, 2016. (Instructional Programs) Instructional Programs.

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

**CENTER FOR THE STUDY OF FAMILY VIOLENCE AND SEXUAL ASSAULT**

Award: 428,371.00.

The goal of the project is to examine behavioral, physical, emotional, and cognitive outcomes among parents at low versus high risk of child physical abuse when exposed to continuously crying versus continuously sleeping infant simulators.

**Kansas State University for "Family Advocacy Program (FAP) Quality Assurance Projects." Joel S. Milner/Julie L. Crouch/Randy McCarthy.**
Award: 50,000.00. (Cumulative $270,000.00).

Assist the Air Force’s Family Advocacy Program staff to use their databases as a tool for assessing and implementing prevention and treatment; and the New Parent Support program in the evaluation of their data for management and quality purposes.

**CHEMISTRY AND BIOCHEMISTRY**

Award: 20,000.00. (Cumulative $30,000.00).
The purpose of this project is to produce one to three new zinc crystals and new aluminum crystals.

ChemNova Technologies, Inc. for "Nanocoatings for multifunctional applications." Chhiu-Tsu Lin.
Award: 20,000.00. (Cumulative $80,000.00).

The purpose of this project is to develop thermal conductive and cooling nanocomposites, NIR shielding and reflecting nanocomposites, and processes for large scale production of graphene.

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/Promod Vohra/Mansour Tahernezhadi.
Award: 50,000.00.
July 1, 2015 - August 15, 2016. (Other Sponsored Activities) Public Service.

Funds are requested to strengthen the STEM pipeline for female students from middle school to college.

Award: 27,937.00.
May 1, 2015 - September 30, 2015. (Instructional Programs) Instructional Programs.

Funds are requested to provide 80 hours of professional development training using Next Generation Science Exemplar (NGSX) during summer months of 2015 for teachers in ROE 35's school districts.

COMMUNICATION

Illinois Humanities Council for "Go Penguins!" Randy Caspersen.
Award: 2,500.00.
June 1, 2015 - March 31, 2016. (Other Sponsored Activities) Public Service.

This project funds post-production costs for a documentary of a children’s theater project serving children with intellectual and physical disabilities.

COMPUTER SCIENCE

Award: 21,683.00.

Funds will be used to develop new methods based on software-defined network (SDN) to provide quality of service (QoS) for end-to-end data transfer in terabit networks.
ENGINEERING TECHNOLOGY

Award: 4,395.00.

The PIs will review the chemicals in up to 10 chemical mixtures that IDEAL provides to its customers to evaluate how to classify the mixture hazard information on Safety Data Sheets as required by OSHA.

ENVIRONMENT, SUSTAINABILITY & ENERGY

Award: 9,000.00.
July 1, 2015 - August 31, 2016. (Organized Research) Basic Research.

Funds will be used to determine the potential influence of bison on water quality at Nachusa Grasslands.

FAMILY, CONSUMER AND NUTRITION SCIENCES

DeKalb County Community Foundation for "Northern Illinois University Child Development Laboratory Prop Boxes." Lisa M. Schmidt.
Award: 1,250.00.
June 1, 2015 - May 31, 2016. (Other Sponsored Activities) Other.

These funds will enhance curriculum materials supporting large motor, math, science, and diversity for the Center.

Award: 20,100.00. (Cumulative $40,200.00).

The purpose of this project is to provide support for the Northern Illinois Food Bank (NIFB) related to research and nutrition education program implementation.

FINANCE AND FACILITIES

ELS Educational Services, Inc. for "Impact of ELS Education on Success in Undergraduate and Graduate School Development of the Design for a Long Term Validation Study." Dan House.
Award: 10,000.00. (Cumulative $30,000.00).

The purpose of the project is to assemble data from NIU as an ELS host institution, which will then be analyzed across academic disciplines and student demographics by ELS.
GEOLOGY AND ENVIRONMENTAL GEOSCIENCES

National Science Foundation for "Diatom and Oxygen Isotope Evidence of Pliocene Antarctic Ice Sheet Dynamics and Ross Sea Paleoceanography." Justin Dodd/Reed P. Scherer.
Award: 203,590.00.

To contribute new insights into Pliocene environmental conditions in the Ross Sea as an analog for future warming periods.

National Science Foundation for "Copper and Gold in sulfur-rich magmatic-hydrothermal systems." Mark R. Frank.
Award: 80,881.00. (Cumulative $271,262.00).

Concentrations of copper and gold in a sulfur-rich ore fluid can change with temperature and pressure fluctuation. The approach outlined in this proposal will provide important data on copper and gold in magmatic hydrothermal fluids.

GRADUATE SCHOOL, DEAN'S OFFICE

Waubonsee Community College for "Support for Graduate Assistants." Bradley G. Bond.
Award: 21,600.00.
August 16, 2015 - May 15, 2016. (Instructional Programs) Instructional Programs.

Funds will be used to provide graduate assistantships to two students from NIU's student life unit. The assistants will provide quality support to Waubonsee Community College in the areas of civic engagement and compliance programming.

HISTORY

Award: 50,078.00.

This fellowship will allow for the completion of a book-length manuscript exploring the development and activities of the Commission Internationale Contre le Regime Concentrationnaire in France following WW II.

ILLINOIS COUNCIL ON ECONOMIC EDUCATION

Econ Illinois for "Illinois Council Operation Grant." Nancy H. Harrison.
Award: 34,276.00.
July 1, 2015 - June 30, 2016. (Instructional Programs) Instructional Programs.

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

Award: 230,000.00. (Cumulative $568,854.00).
July 1, 2015 - June 30, 2016. (Other Sponsored Activities) Public Service.

The purpose of this project is to provide multiple Illinois audiences with data through the Illinois Report Card that they can use to improve schools.

Award: 500,143.00. (Cumulative $3,629,047.00).
July 1, 2015 - June 30, 2016. (Other Sponsored Activities) Public Service.

Funds will be used to maintain the Interactive Illinois Report Card modules MYIIRC, Rising Star, 21st Century and knowledge transfer/consultation services.

Illinois State Board of Education for "Enhanced MyIIRC." Harvey Smith.
Award: 996,455.00.
July 1, 2015 - June 30, 2016. (Other Sponsored Activities) Public Service.

Innovation and improvement for FY16 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

Visiting Nurse Association of Fox Valley for "Improving Efficiencies of a Health Care System." Omar A. Ghrayeb/Christine Nguyen.
Award: 43,995.00.

This project is a study of the open-access healthcare system at VNA Healthcare that aims to lower the expected cycle time for the average patient and improve patient satisfaction in the VNA same-day service model.

LEADERSHIP, EDUCATIONAL PSYCHOLOGY AND FOUNDATIONS

Award: 4,431.00. (Cumulative $300,564.00).
October 1, 2015 - September 30, 2016. (Organized Research) Basic Research.

The goals for this project include expanding understanding of how practices employed in the delivery of Informal Stem Learning (ISL) activities are associated with cultivating youth interest and engagement and using these findings to inform practice.
LITERACY AND ELEMENTARY EDUCATION

Award: 385,600.00. (Cumulative $1,786,949.00).
September 1, 2015 - August 31, 2016. (Other Sponsored Activities) Public Service.

The purpose of this project is to train teachers who will earn the Illinois ESL and/or bilingual endorsement with an emphasis on STEM subjects.

MANAGEMENT

VentureWell for "Developing an I-Lab Accelerator Program at Northern Illinois University." Christine Mooney/Mansour Tahernezhadi.
Award: 12,500.00.
August 1, 2015 - December 31, 2016. (Instructional Programs) Instructional Programs.

This project develops and implements a 16-week program designed as a start-up accelerator, allowing students to work in multidisciplinary teams to develop an innovative technology to solve a global social problem.

MECHANICAL ENGINEERING

Namiki Precision Jewel Co., Ltd. for "Testing Project for Namiki Precision." Federico Sciammarella.
Award: 10,514.00. (Cumulative $16,014.00).

This project will demonstrate LAM effectiveness and basic characteristics (Silicon nitride).

NORTHERN PUBLIC RADIO

Award: 4,760.00.
April 21, 2015 - August 31, 2015. (Other Sponsored Activities) Public Service.

Funds are being used to support high quality public radio programming.

Award: 4,760.00.
April 21, 2015 - August 31, 2015. (Other Sponsored Activities) Public Service.

Funds are being used to support high quality public radio programming.

NURSING AND HEALTH STUDIES

American Nurses Foundation for "Caregiver Strain Risk as a Predictor of Physical Health among Informal Caregivers of Persons with Parkinson's Disease." Maryann Abendroth.
Award: 4,161.00.
This research will determine whether a newly-validated tool, the Caregiver Strain Risk Screen-14, is predictive of frequency of physical health symptoms in caregivers for people with Parkinson's disease.

Hines VA Hospital for "Enhancing Implementation of Secure Messaging for Veterans with SCI/D." Christina Papadimitriou.  
Award: 4,766.00. (Cumulative $51,423.00).  

Funds will be used to provide methodological, design, analysis, and interpretation of project findings in spinal cord injury research.

Kishwaukee Health System for "NIU School of Nursing Internship Program." Janice Strom.  
Award: 15,000.00.  
May 18, 2015 - June 12, 2015. (Other Sponsored Activities) Public Service.

This program provides supervised, hands-on clinical experiences at Kishwaukee Health System for undergraduate nursing students to complement what is offered in the formal classroom.

PHILOSOPHY

The Administrators of the Tulane Educational Fund (Tulane University of Louisiana) for "For Our Own Good: A Defense of Paternalism - Murphy Institute Faculty Fellowship." Jason Hanna.  
Award: 67,000.00.  

Goals are to complete the manuscript For Our Own Good, which will defend a principle according to which it is permissible to intervene in a person's self-regarding choice so long as the intervention would promote that person's well-being.

PHYSICS

Argonne National Laboratory for "Atomic-scale surface structure and dynamics during growth." Carol Thompson.  
Award: 14,557.00.  

The purpose of this project is to conduct experiments that incorporate in-situ x-ray scattering studies to study the growth and processing of materials during MOCVD at the Advanced Photon Source.

Award: 280,000.00.  
August 1, 2015 - July 31, 2016. (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 $2 \times 10^{-17}$ on the muon-to-electron rate.

Fermi National Accelerator Laboratory for "Joint Appointment NIU/FNAL." Young-Min Shin. Award: 7,823.00. (Cumulative $226,311.00). August 16, 2015 - September 30, 2015. (Other Sponsored Activities) IPA or Joint Appointment.

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.


Funds are used to support Graduate Assistant Andrew Green at Fermi National Accelerator Laboratory.


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


The purpose of this project is to develop novel tools necessary for accurate and efficient modeling, simulation and design optimization of electron cooling options for a future Electron Ion Collider, or any other nuclear physics facility where high luminosity, low transverse and longitudinal emittance are required.

Fermi National Accelerator Laboratory for "Joint Appointment NIU/FNAL." Swapan Chattopadhyay. Award: 141,000.00. (Cumulative $279,951.00).
September 1, 2015 - August 31, 2016. (Other Sponsored Activities) IPA or Joint Appointment.

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.

Award: 180,000.00.

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.

Award: 170,000.00.
August 1, 2015 - July 31, 2016. (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.

National Science Foundation for "Using the Higgs boson to probe and test the Standard Model at ATLAS." Jahred Adelman.
Award: 137,751.00.

The proposed project aims to use the newly discovered Higgs boson as a probe of the validity of the Standard Model (SM) of particle physics.

Fermi National Accelerator Laboratory for "Formation, Manipulations and Applications of Flat and Magnetized Beams at the FAST Facility." Aliaksei Halavanau/Philippe R. Piot.
Award: 11,138.00.

The funds are used to support PhD Student Aliaksei Halavanau's work under the Joint University-Fermilab Doctoral Program in Accelerator Physics and Technology.

PSYCHOLOGY

School District # 425, Indian Creek for "Psychology Externship at Indian Creek School District."
Leslie Matuszewich.
Award: 17,977.00.

Funds will be used to support a graduate externship in school psychology with Indian Creek
School District.


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.


Funds will be used to support two Psychology student interns who shall be involved in clinical assessment, treatment, curriculum development, training, and consultation at UIC's facilities.


The goal of the project is to support a psychology graduate student externship placement with St. Charles schools.

National Science Foundation for "Do Implementation Intentions Facilitate Job Search Behaviors for the Unemployed?" Bradley G. Bond/Christopher J. Budnick/Alecia Santuzzi/Amanda M. Durik. Award: 48,000.00. (Cumulative $136,000.00). April 1, 2015 - March 31, 2019. (Organized Research) Applied Research.

The goal of this project is to examine the utility of implementation intentions in reducing job search distractions and increasing job search time among unemployed job seekers.

PUBLIC ADMINISTRATION

City of DeKalb for "Management Intern (Emily Tipps)." Denise Burchard. Award: 26,040.00. August 16, 2015 - May 15, 2017. (Instructional Programs) Instructional Programs.

The Management Intern will provide assistance to the City Manager with special projects, initiatives and technical work as assigned, and also provide assistance and leadership on projects and initiatives in other departments.

Little City of Palatine for "Administrative Intern (Tasheik Kerr)." Denise Burchard.
Award: 16,170.00.

The Intern provides support for day-to-day operations and provides administrative and staff support to the programs and services of the Little City Foundation.

Village of Lemont for "Administrative Intern (Adewale Adetunji)." Denise Burchard.
Award: 15,400.00.

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

Village of Itasca for "Management Intern (Lamar Jones)." Denise Burchard.
Award: 16,170.00.

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

Communities in Schools of Aurora, Inc. for "Management Intern (Anna Toole)." Denise Burchard.
Award: 20,992.00.
August 16, 2015 - December 15, 2016. (Instructional Programs) Instructional Programs.

Funds support internship training for an NIU graduate student who will provide assistance to the Communities in Schools of Aurora program.

Village of Glen Ellyn for "Administrative Intern – Glen Ellyn (Brendon Mendoza)." Denise Burchard.
Award: 16,170.00.

Funds support internship training for an NIU graduate student who will provide assistance to the Glen Ellyn Planning and Development Director and Village Planner in support of the daily activities of the planning division.

RESEARCH, EVALUATION AND POLICY STUDIES

Waubonsee Community College for "Evaluation for Waubonsee Community College's Trade Adjustment Assistance Community College and Career Training Grant Award." Brent E. Wholeben/Ximena D. Burgin.
Award: 24,082.00. (Cumulative $201,605.00).

The goal of the study is to develop and implement an evaluation plan for the Waubonsee Community College - Trade Adjustment Assistance Community College and Career Training Grant.
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/Jodi Sticken/Stacy Kelly.
Award: 250,000.00. (Cumulative $750,000.00).
August 16, 2015 - August 15, 2016. (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 $220,000.00).
October 1, 2015 - September 30, 2016. (Instructional Programs) Instructional Programs.

The goal of the project is the 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

Award: 41,000.00. (Cumulative $270,079.00).
August 17, 2015 - May 31, 2016. (Instructional Programs) Instructional Programs.

The purpose of this project is to support a graduate student from NIU's Statistics Division in receiving real-world experience in the practice of statistics by working in the division of Data and Statistical Sciences of Abbott Labs.

SURVEY RESEARCH TEAM

University of Minnesota for "Chicago Longitudinal Survey." Mindy Schneiderman.
Award: 27,501.00. (Cumulative $77,500.00).

The purpose of the project is to conduct follow up interviews as part of a University of Minnesota project.