# Summary of Grant/Contract Awards – Fiscal Year 2013

January 1, 2013 – March 31, 2013

<table>
<thead>
<tr>
<th>Source</th>
<th>THIS REPORT</th>
<th>CUMULATIVE</th>
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<tbody>
<tr>
<td>Federal Government</td>
<td>1,553,717</td>
<td>10,370,494</td>
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<tr>
<td>State of Illinois</td>
<td>6,557,935</td>
<td>7,035,935</td>
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<tr>
<td>Corporate</td>
<td>93,332</td>
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<tr>
<td>Public/Not for Profit</td>
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<td>839,218</td>
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<tr>
<td>Foreign</td>
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<td>95,307</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>8,322,119</strong></td>
<td><strong>19,022,830</strong></td>
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<tr>
<th>Purpose</th>
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<tr>
<td>Instruction</td>
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<td>Research</td>
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<td>Public Service</td>
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<td>Other</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>8,322,119</strong></td>
<td><strong>19,022,830</strong></td>
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<table>
<thead>
<tr>
<th>College</th>
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<tbody>
<tr>
<td>College of Business</td>
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<td>College of Education</td>
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<td>College of Engineering and Engineering Technology</td>
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<td>College of Health and Human Sciences</td>
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<tr>
<td>Outreach, Engagement, and Information Technologies</td>
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<td>Other Academic Units</td>
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<tr>
<td>Other University Units</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>8,322,119</strong></td>
<td><strong>19,022,830</strong></td>
</tr>
</tbody>
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ACCOUNTANCY

PricewaterhouseCoopers for "NIU's Judgment and Decision-Making in Accounting Course (ACCY 675)." James C. Young.
Award: $10,000.00.

Funds were used to create a comprehensive case, based on the Caterpillar plant in Aurora, IL, that requires students to analyze a capital budgeting decision.

PricewaterhouseCoopers for "Development of an Essential Excel "Tool Kit"." James C. Young.
Award: $10,000.00.

The purpose of this project is to develop an Excel tool kit to improve students' proficiencies in the areas of advanced charting, advanced spreadsheet formatting, decision modeling, sensitivity analysis, data management, and keyboard shortcuts.

ANTHROPOLOGY

Field Museum of Natural History for "Student Internship at the Field Museum." Winifred M. Creamer.
Award: $4,500.00.

This project supports an internship for an Anthropology/Museum Studies graduate student at the Field Museum of Chicago.

ART

Award: $14,000.00.

The project involves a comprehensive study for the Maya palace group known as the The Nunnery Quadrangle at Uxmal, Yucatan, Mexico. It will investigate the functions and meanings of the building complex, its architectural sculptures, and associated paintings. The complex's ideological role in manifesting elite authority will be interpreted in the context of studies of the social and cultural significance of art and architecture of the Mesoamerican Epiclassic period.

CENTER FOR CHILD WELFARE AND EDUCATION

Illinois Department of Children and Family Services for "FY13 Educational Access Project."
Angela Baron-Jeffrey.
Award: $1,138,810.00.

Funds are being used to promote academic success for every child who is a ward of the Illinois Department of Children and Family Services and children who have been adopted or are in
Illinois Department of Children and Family Services for "FY13 Northern Region Permanency Enhancement Project." Angela Baron-Jeffrey. Award: $50,000.00. July 01, 2012 - June 30, 2013. Public Service

Funds are being used 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 GOVERNMENTAL STUDIES


The purpose of this project is to provide the Illinois Community College Board with enhancements and updates to the Illinois Community College Systems Career and Technical Education Perkins Post-Secondary Internet Site.


The purpose of this project is to provide the Illinois Community College Board with data and information to support program improvement initiatives, quality/performance funding for Adult Education and Family Literacy, and the State's submission of the National Reporting System (NRS) for Adult Education and Family Literacy.

CENTER FOR THE STUDY OF FAMILY VIOLENCE AND SEXUAL ASSAULT


Funds will be used to conduct a study to examine whether parents that are classified as being at high risk for child physical abuse spontaneously form more negative/less positive inferences from children's behaviors than parents classified as low risk for child physical abuse.


Funds are being used to assist the United States Air Force's Family Advocacy Program staff to use more effectively their Family Advocacy System of Records (FASOR) database as a tool for
accurately assessing family maltreatment within the Air Force and implementing timely and appropriate prevention and treatment processes. A second goal is to assist the USAF's New Parent Support program in the evaluation of their intervention/prevention data for management and quality-control (e.g., program evaluation) purposes.

COLLEGE OF ENGINEERING & ENGINEERING TECH, DEAN'S OFFICE


Aerospace Micro-Mesoscale Manufacturing (AM3) open manufacturing program addresses the productivity limitations of the current generation of direct digital manufacturing.

COLLEGE OF LIBERAL ARTS AND SCIENCES, DEAN'S OFFICE


Funds will be used to collect and process data for the Illinois Behavioral Risk Factor Surveillance System in service to the Illinois Department of Public Health.

COUNSELING, ADULT AND HIGHER EDUCATION


Funds will be used to develop and administer a survey for Clinical Directors of CACREP accredited programs to determine current data pertaining to the operation and management of counseling training clinics.


Funds will be used to conduct a qualitative investigation of how Master's students may adopt a social justice paradigm during their practicum experience in the counseling department.

EDUCATIONAL TECHNOLOGY, RESEARCH, AND ASSESSMENT


The purpose of this project is to conduct preliminary research in order to develop a framework or "map" of student assessment and other constructs related to student achievement among Illinois K-12 students.

American Academy of Pediatrics for "Professional Development Workshop at the American Academy of Pediatrics (AAP)." York, Cindy
Award: $850.00.

Funds will be used to assist staff at the American Academy of Pediatrics with introductory iPAD training

FAMILY, CONSUMER AND NUTRITION SCIENCES

Illinois State University for "Determining Best Promotion Efforts for Illinois Family and Consumer Sciences Teacher Education Programs." Sally Arnett.
Award: $14,105.00.

The purpose of the research project is to determine best practices for marketing and recruiting students into Family and Consumer Sciences (FACS) teacher education programs in Illinois institutions.

Kane County Fit for Kids Funders' Consortium for "NIU Nutrition with the Farmers' Market and Other Community Food Systems." Beverly W. Henry.
Award: $4,860.00.

The purpose of this project is to sustain the NIU nutrition booth for the 2013 farmers' market season at the Aurora Saturday Farmers' Market.

FOREIGN LANGUAGES AND LITERATURES

Illinois Board of Higher Education for "NIU Higher Education Transitions Committee: Regional College Readiness Partnership." Anne L. Birberick/Marilyn Bellert/Anne C. Kaplan.
Award: $50,000.00.

The goal of the project is a collaborative project between NIU, regional community colleges, and high schools within those districts, to discuss alignment of college readiness skills.

GEOGRAPHY

Argonne National Laboratory for "Geospatial Infrastructure Technical Support." Philip P. Young.
Award: $199,672.00. (Cumulative $1,323,424.00).
Funds are being used to provide geospatial expertise to Argonne's Infrastructure Assurance Center (IAC).

ILLINOIS COUNCIL ON ECONOMIC EDUCATION

Award: $13,300.00.

Funding is being used to carry out administrative functions for Econ Illinois.

INDUSTRIAL ENGINEERING

SPX Hydraulic Technologies for "Process Improvement for Power Team Product Line at SPX."
Purushothaman Damodaran/Omar A. Ghrayeb.
Award: $34,335.00. (Cumulative $97,586.00).

Funds are being used to assess the current cellular layout for, and to analyze the current state of the activities such as material flow, storage, etc. associated with, SPX's Power Team product line.

KINESIOLOGY AND PHYSICAL EDUCATION

C. Charles Jackson Foundation (CCJF) for "Youth Fit for Leadership Project." Paul Wright/James Ressler.
Award: $5,000.00.

Funds will be used to develop an instructional model to teach life skills through physical activity at the middle school level.

LEADERSHIP, EDUCATIONAL PSYCHOLOGY AND FOUNDATIONS

University of Kansas for "Development and Validation of Online Adaptive Reading Motivation Measures." Stephen Tonks.
Award: $59,046.00. (Cumulative $141,437.00).

Funds will be used to develop and validate an online adaptive measure of reading motivation for adolescents.

MATHEMATICAL SCIENCES

Award: $20,000.00. (Cumulative $40,000.00).

Funds are being used to study finite groups, which are algebraic structures measuring symmetry.
Progress towards certain questions dating from the 1950s, which concern the way in which the symmetries act on linear spaces, is likely.

MECHANICAL ENGINEERING

Award: $18,770.00.

A team of US (NSF-funded) and Finnish investigators are coming together to leverage their currently funded work in measurement of game-based learning to take on a radically different approaches to the measurement of STEM learning.

Fermi National Accelerator Laboratory for "Development of the MU2E Preliminary Design." David R. Hedin.
Award: $35,605.00. (Cumulative $112,275.00).

Funds are being used to support NIU's role in developing the Muon Beamstop, SiPM Characterization, and design of the Upstream Extinction Monitor.

Hamilton Sundstrand Corporation for "Air Cooling in Rotating Annular Channel." Pradip Majumdar.
Award: $25,000.00. (Cumulative $126,500.00).

Evaluation of air cooling effectiveness in an annular rotating flow channel via testing and data analysis over a range of operating conditions. Final test report will be prepared.

MOTORCYCLE SAFETY

Award: $1,555,855.00.

Funds will be used to conduct motorcycle safety classes.

NURSING AND HEALTH STUDIES

Department of Education for "Cross-Sector Patterns of Treatment for Children with Autism." Lucy Bilaver.
Award: $65,000.00.

This study characterizes how parents combine treatments for autism across both school and health care service sectors during early childhood, a period of development critical for altering the trajectory of impairment associated with autism spectrum disorder (ASD).

Illinois Board of Higher Education for "Nursing Fellowship at NIU." Cathy L. Carlson.
Award: $9,061.00.

This fellowship would acknowledge and reward the exceptional service of Cathy Carlson to the School of Nursing and its students.


The purpose of this project is to evaluate, and to update metrics of, an outreach program that extended digital literacy demonstration to residents of affordable housing, and surrounding, communities.

Sigma Theta Tau International for "Evaluation of Emotional Eating Among College Students at Northern Illinois University." Joanne Haefele/Patricia Braun. Award: $1,000.00.

The purpose of this study is to evaluate the prevalence of emotional eating among students attending Northern Illinois University is proposed.

Kane County for "Evaluation and Monitoring Plan for the Kane County Farmland Protection Ordinance Health Impact Assessment (KCHIA)." David Stone/James R. Ciesla. Award: $10,000.00.

The purpose of this project is to evaluate the impact and outcomes of the Kane County Farmland Protection Ordinance Health Impact Assessment and to develop a monitoring plan to track the indicators used to inform the process.

OUTREACH, ENGAGEMENT, AND INFORMATION TECHNOLOGIES, VP

Illinois State Board of Education for "Interactive Illinois Report Card." Harvey Smith/Marilyn Bellert. Award: $14,999.00. (Cumulative $1,194,999.00).

Funds will be used to provide maintenance, upgrades, and other technical support for the Interactive Illinois Report Card web site.

University of Illinois at Urbana-Champaign for "Grant Management Program 01." Harvey Smith. Award: $401,597.00. (Cumulative $386,597.00).
July 01, 2012 - June 30, 2014. Public Service

The purpose of this project is to convene a working group to review and evaluate web-based instructional and learning applications for integration into the Illinois Shared Learning Environment through the Illini Cloud.
Illinois State Board of Education for "Redesign of Illinois Interactive Report Card Web Site."
Harvey Smith.
Award: $475,000.00. (Cumulative $475,000.00).

The purpose of this project is to redesign the presentation and functionality of the Illinois Interactive Report Card web site.

PHYSICS

University of Chicago for "MRI: Development of Ultrafast Tracking Electronics for the ATLAS Trigger." Dhiman Chakraborty.
Award: $54,384.00. (Cumulative $70,277.00).

Funds are being used to support construction, production, and testing of electronic equipment to be included in the ATLAS trigger at the Large Hadron Collider.

Award: $91,016.00. (Cumulative $217,434.00).

Funds will be used for NIU's participation in the ATLAS Project through the simulation of a particle detector response.

University of Notre Dame for "The Quarknet Project." Dhiman Chakraborty.
Award: $13,740.00.

The purpose of this project is to involve high school teachers and their students in state-of-the-art research that seeks to resolve some of the mysteries about the structure of matter and the fundamental forces of nature.

Argonne National Laboratory for "Properties of Superconducting Nanopatterned Structures Near the Superconductor Insulator Transitions." Andreas Glatz.
Award: $28,994.00.

Funds will be used to support a visiting professor's work to analyze the role of quantum phase-slips in one- and two-dimensional Josephson junction arrays.

Award: $17,953.00.

Funds will be used to develop and test software for real time data comparison and fast processing of images using a computer cluster.
Award: $96,000.00. (Cumulative $638,000.00). 

Funds are being used to (1) enhance our understanding of space charge while providing considerable additional detailed data by which to validate simulation codes and (2) pave the way to phase space manipulations such as needed to improve the beam brightness.

Argonne National Laboratory for "Fabrication and Characterization of Superconducting Nanostructures." Zhili Xiao. 
Award: $7,262.00. (Cumulative $58,599.00). 

Funds are being used to develop approaches to probe the effect of an array of artificial defects on a superconductor.

Argonne National Laboratory for "Research Scientist Support." Adam Yurkewicz/Vishnu V. Zutshi. 
Award: $38,163.00. 
December 03, 2012 - December 02, 2013. Organized Research.

Funds are being used to support Dr. Adam Yurkewicz's work with the Argonne ATLAS group, aimed at improving the performance of the ATLAS detector, and in particular contribute to its Technical Design Report.

Fermi National Accelerator Laboratory for "Joint Appointment NIU/FNAL." Young-Min Shin. 
Award: $8,600.00. (Cumulative $108,624.00). 

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.

PSYCHOLOGY

Award: $2,834,163.00. 

Funds will be used to provide clinical screening and assessment services to children and adults served by Illinois DCFS in Fiscal Year 2013.

PUBLIC ADMINISTRATION

Tanzania Development Support for "Tanzania Development Support Internship." Denise Burchard.
Award: $13,600.00.

The purpose of the project is to provide valuable internship training to an NIU graduate student, who will assist the Tanzania Development Support's Board of Directors with conducting research, information management, and maintaining and improving internal and external communications.

City of Aurora for "City of Aurora Internship." Denise Burchard.
Award: $4,488.00.

The purpose of this project is to provide valuable internship training to an NIU graduate student, who will assist the City of Aurora with conducting research, information management, and maintaining and improving internal and external communications.

PUBLIC OPINION LAB

University of Minnesota for "Chicago Longitudinal Survey." Mindy Schneiderman.
Award: $127,101.00.
December 05, 2012 - August 31, 2013. Organized Research

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

Frankfort Public Library for "Frankfort Public Library District Survey." Mindy Schneiderman.
Award: $5,975.00.

Funds were used to conduct an employee and community survey.

Special Education District of Lake County (SEDOL) for "Survey for Special Education District of Lake County." Mindy Schneiderman.
Award: $4,910.00.

Funds are being used to provide survey results to SEDOL.

SOCIOLOGY

Award: $12,000.00.

Funds will be used to collect follow-up data in Sierra Leone on the progress of postwar reconstruction and 2) new data collection in Senegal on the role of West African leadership in the peace process. The data will be used in writing a book on the state-building role of the international community in three war-torn West African countries.
SPECIAL AND EARLY EDUCATION

Award: $10,877.00.

Funds will be used to review program proposals for Chicago Public Schools application process for "Chicago: Ready to Learn!" program.

STATISTICS

Society of Actuaries for "Assessing high-risk scenarios by full-range tail dependence copula." Lei Hua.
Award: $9,900.00.

The purpose of this project is to develop a copula-based predictive pricing model that is useful to assessing high-risk scenarios.

TEACHER CERTIFICATION

Award: $6,912.00. (Cumulative $20,448.00).

Funds will be used to support the integration of RTL elements into NIU educator preparation programs.