1-1-2009

2008 Major Sponsored Programs and Faculty Awards for Research and Creative Activity

Office of Research, University of Nebraska–Lincoln
Research and Creative Activity

2008 Major Sponsored Programs and Faculty Awards for Research and Creative Activity

Office of Research
University of Nebraska–Lincoln
3 Awards of $3 million or more
16 Awards of $1 million to $2,999,999
24 Awards of $200,000 to $999,999
58 Early Career Awards
62 Arts and Humanities Awards of $50,000 or more
65 Arts and Humanities Awards of $5,000 to $49,999
67 Patents Issued
69 Intellectual Property Licences
71 Creative Works in Fine and Performing Arts
74 Books
87 Recognitions and Honors
95 Glossary of Federal Agency Abbreviations

On the Cover: Climate change is a global concern with potential to alter the life and landscape of Nebraska and the High Plains. On the cover, a thunderstorm moves toward the Upstream Ranch along the Calamus River in Nebraska’s Sandhills, one of the fragile ecosystems that could see significant impacts of climate change. Diverse research by UNL scientists is expanding our understanding of climate change and providing tools to help preserve the region’s long-term sustainability. UNL is partnering with the U.S. Geological Survey to explore developing a regional climate change research framework.
This is the seventh annual "Major Sponsored Programs and Faculty Awards for Research and Creative Activity" report. This booklet highlights the successes of University of Nebraska–Lincoln faculty during 2008. It lists the funding sources, projects and investigators on major grants and sponsored program awards received during the year, as well as patents issued; published books and scholarship; fellowships and other recognitions; intellectual property licenses; and performances and exhibitions in the fine and performing arts. This impressive list grows each year and I am pleased to present evidence of our faculty’s accomplishments.

From climate change, water and renewable energy, to math and science education, virology and transportation safety, UNL faculty are addressing important challenges for Nebraska, our nation and the world. Our external research funding reflects their achievements, growing 115 percent since 2000 to a record $106.1 million in fiscal year 2008.

How have we achieved this success? We have worked to integrate our research priorities with our established programs of excellence, building on each success. We zealously foster interdisciplinary research and collaborations with public and private partnerships, thus expanding our economic development efforts by working with business and industry. And we celebrate our achievements and recognize that excellence attracts excellence.

These accomplishments exemplify how UNL’s emphasis on innovation, interdisciplinarity and international collaborations is propelling our research into new arenas, producing new products and technologies for the marketplace and offering our students intensive research experiences.

Thank you for your interest in and support of research at the University of Nebraska–Lincoln!

Prem S. Paul
Vice Chancellor for Research and Economic Development
Active awards in 2008
* Indicates new in 2008

**Allen, David**

**Engineering**

Blast Wave Absorbing Structures: An Experimental & Modeling Program  
DOD-Army Research Laboratory  
$7,500,000  
6/25/04 – 6/24/09

David Allen, dean of the College of Engineering and professor of engineering mechanics, with funding from the Army Research Laboratory-Weapons and Materials Research Directorate, directs a collaborative effort focused on development of new materials and technologies relevant to blast mitigation and weapons detection. The program includes 24 UNL faculty from six different departments—civil engineering, structural engineering, chemical and biomolecular engineering, electrical engineering, engineering mechanics and mechanical engineering—working on 15 multidisciplinary projects. The projects have the common objective of providing new materials and technologies for blast mitigation, mine detection and pathogen detection.

**Cassman, Kenneth**

**Nebraska Center for Energy Sciences Research; Agronomy and Horticulture**

$5,000,000  
4/1/06 - 3/31/2011

Kenneth Cassman directs the Nebraska Center for Energy Sciences Research, a collaboration between UNL and the Nebraska Public Power District. The center was established in April 2006 with NPPD’s five-year, $5 million commitment to support energy research that produces new technologies, processes and systems that provide new or significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among UNL faculty and with other research institutions, public-sector agencies and private sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels, wind and solar energy), as well as opportunities for energy conservation.
Chandra, Namas

Army-UNL Center for Trauma Mechanics

$3,261,250

DOD-Army Research Office

10/01/08 – 09/30/09

Namas Chandra, associate dean in the College of Engineering, has received a grant from the Army Research Office to create the UNL Center for Trauma Mechanics. The center will focus on the effects of blast waves on the head and brain of a fully equipped soldier in the field. The project will study wave propagation effects on the skull and brain especially under mild traumatic brain injury (TBI) pressure loading conditions. The work of the center will be instrumental in improving understanding of TBI and may lead to design of more effective protection systems that shield soldiers from the combined effects of both blast waves and impact.

Cotton, Dan

National eXtension Project

$8,870,000

National Association of State Universities and Land-Grant Colleges

10/01/04 - 12/31/11

Dan Cotton directs the eXtension Initiative, an Internet-based Cooperative Extension Service education and information system. UNL is the lead institution in this multi-year project, which partners with the University of Kentucky, North Carolina State University and Virginia Tech University. This is a collaborative effort of the nation’s 107 land-grant universities and the U.S. Department of Agriculture’s Cooperative State Research, Education and Extension Service to develop content and technology for the eXtension project. eXtension is a virtual educational environment that provides science-based, objective information. Users may take advantage of learning opportunities and interact with the expertise available from the land-grant university system by visiting www.extension.org.
Barbara Couture, vice chancellor for academic affairs, with funding from the National Science Foundation, directs ADVANCE-Nebraska, a program intended to significantly increase the gender and racial diversity of the UNL faculty, especially in the science, technology, engineering and mathematics (STEM) fields. The ADVANCE office, led by program director Mary Anne Holmes, professor of geosciences, will coordinate recruitment and retention-enhancing activities, disseminate information to the campus and the academic community at large, and serve as liaison for the many groups engaged in diversity-focused activities on campus. Other ADVANCE efforts include initiatives related to flexible work arrangements to accommodate work-life issues of faculty; development of a dual career partner program; training programs to minimize the influence of bias on decision-making processes; and informal networking through professional development workshops, luncheons and retreats. The five-year, $3.8 million grant is from NSF’s ADVANCE program, which aims to increase participation and advancement of women in academic science and engineering careers.
A five-year, $8.7 million grant from the U.S. Department of Health and Human Services Children’s Bureau has helped establish the Midwest Child Welfare Technical Assistance Implementation Center. The new center will provide long-term consultation and support to child service agencies and tribes in Nebraska, Iowa, Illinois, Indiana, Kansas, Michigan, Missouri, Minnesota, Ohio and Wisconsin. It will partner with state and tribal child welfare agencies to assess their inner workings and identify broad changes that could help them operate more efficiently and effectively to serve families and children; identify obstacles to helping families; build the capacity of state and tribal child welfare systems; and work toward significant changes to improve outcomes for children and families involved with these system. The ultimate goal is to ensure all children have safe, stable and permanent homes. Co-leaders of the project are Mark Ells and Michelle Graef of the Center on Children, Families and the Law.

With more than $3 million in support from the Department of Transportation’s Federal Railroad Administration, associate professor of mechanical engineering Shane Farritor and colleagues are continuing to develop techniques to assess track stability and related high-speed wireless communication to improve the safety of railroad operations. This funding supports research in three different areas of railroad track safety: 1) real-time measurement of track modulus from a moving car, leading to preventative maintenance strategies that relate track modulus data to specific track problems; 2) study of the measurement of rail longitudinal stress, to help reduce rail failure; and 3) study of the use of electrical energy from passing trains to power an efficient warning light system at grade crossings that are not equipped with warning light systems due to the lack of electrical infrastructure, thus reducing accidents at these “passive” grade crossings.
Gladyshev, Vadim

Biochemistry

Redox Biology Center

$10,577,043

8/1/07 – 7/31/12

Vadim Gladyshev, Charles Bessey professor of biochemistry in the Institute of Agriculture and Natural Resources, is the director of the Redox Biology Center. Established in 2002 with a grant from the National Institutes of Health as a Center of Biomedical Research Excellence, the center received a competitive renewal grant in 2007 to support it through 2012. The center’s researchers investigate how cells maintain a reduction-oxidation balance, a process called redox homeostasis, and study links between redox homeostasis and diseases such as cancer, cardiovascular disease, Alzheimer’s disease and cataracts. The center’s research will provide important advances in the understanding of redox regulation, comprising aspects of cellular aging and controlled cell death.

Goddard, Stephen

Computer Science and Engineering

Drought Risk, Impact and Mitigation Information System

$6,407,473

9/1/05 – 8/31/10

Stephen Goddard, associate professor of computer science and director of UNL’s Laboratory for Advanced Research Computing, is principal investigator in a $6.4 million joint effort by climatologists and computer scientists to bring cutting-edge computer science technologies to agricultural producers’ age-old decision-making processes. The three-year partnership agreements are between the U.S. Department of Agriculture’s Risk Management Agency, UNL’s Department of Computer Science and Engineering and the UNL-based National Drought Mitigation Center. A separate $1 million cooperative agreement, directed by Donald Wilhite, professor in the School of Natural Resources and director of the National Drought Mitigation Center, will support continued work on a tool that uses satellite technology and climate information to detect vegetation stress on the ground for a much more detailed view of drought’s scope and potential impact.
David Harwood, professor of geosciences, leads an international team of scientists drilling beneath the Antarctic ice pack to unearth geological strata that could hold ancient clues to contemporary global warming trends. The National Science Foundation has awarded $12.9 million to a consortium of five U.S. universities headed by UNL and Northern Illinois University. Dubbed ANDRILL (ANtarctic geological DRILLing), the project is administered by the ANDRILL Science Management Office headquartered at UNL. ANDRILL is backed by more than $30 million in funding, including $9.7 million in previous and ongoing national agreements to support operations and nearly $8 million from the other countries to support scientific research. Other members of the U.S. consortium making up the American portion of the ANDRILL program are Florida State University, The Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.

The North Central Risk Management Education Center provides program leadership and coordination for risk management education in the North Central Region (Kansas, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota and Wisconsin). It is one of four risk management education centers in the United States. They were established in 2001 to provide risk management education for agricultural producers to help them develop knowledge, skills and tools needed to make informed risk management decisions for their operations.
Lewis, Jim  
Center for Science, Mathematics and Computer Education; Mathematics

* NEBRASKA MATH  
$9,235,407  
01/01/09 – 12/31/13

Heaton, Ruth  
Teaching, Learning and Teacher Education; CSMCE

McGowan, Thomas  
Teaching, Learning and Teacher Education

Stroup, Walter  
Statistics

Edwards, Carolyn  
Child, Youth and Family Studies; Psychology

Papick, Ira  
Mathematics; CSMCE

Jacobson, Barbara  
Lincoln Public Schools

Drs. Lewis, Heaton, McGowen and Jacobson are joined by Walter Stroup, professor of statistics, Ira Papick, professor of mathematics, and Carolyn Edwards, professor of psychology, in directing NEBRASKA MATH, a statewide program aimed at improving mathematics achievement for all students and narrowing the achievement gap for at-risk students in kindergarten through third grade. The program is supported by a $9.3 million grant from the National Science Foundation. NEBRASKA MATH is a partnership of UNL, public schools in Lincoln, Grand Island, and Papillion-La Vista, and 14 rural Educational Service Units. It builds on the success of UNL’s Math in the Middle Institute, by initiating new programs that focus on enhancing teachers’ knowledge of mathematics and teaching methods.

Math in the Middle Institute Partnership

$5,600,000  
8/1/04 – 7/31/11

Heaton, Ruth  
Teaching, Learning and Teacher Education; CSMCE

McGowan, Thomas  
Teaching, Learning and Teacher Education

Jacobson, Barbara  
Lincoln Public Schools

Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a $5.6 million project titled the Math in the Middle Institute Partnership. The goal is to create the next set of leaders in middle school mathematics who will mentor peers and offer challenging courses to their students. During the five years of the project, about 120 teachers will participate in three in-residence summer sessions, four non-resident academic semesters and take 10 courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students’ academic careers.
With support from the Department of Defense, electrical engineering professor Yongfeng Lu is conducting a five-year study to investigate a new process to deposit a diamond or diamond-like coating on surfaces to create thermal barriers and increase corrosion protection. He is developing a coating technique that employs multiple laser beams to deposit the coating at room temperature in an open atmosphere—a significant improvement over conventional coating techniques that require low vacuum and high temperature. The resulting process will be more energy-efficient, improve the quality of materials on which the coating is deposited, and minimize thermal stress.

Michael Meagher, Donald F. Othmer professor of chemical and biomolecular engineering, is the director of the Biological Process Development Facility. The facility provides clients with process research and early manufacturing of new therapeutic molecules for human clinical testing. The facility is also involved in the development of vaccines against biological warfare agents and products that can be used as therapeutic countermeasures to treat people who have been exposed to biological agents. Department of Defense funding has led to the building of new laboratories that give the Biological Process Development Facility new capabilities in mammalian cell culture process research and development.

Meagher is also collaborating with DynPort Vaccine Co., the University of Colorado, and the U.S. Army Medical Research Institute of Infectious Disease to develop a vaccine that protects against botulinum neurotoxin, a lethal agent that could be used for bioterrorism. The goal is to develop vaccines that protect against five subtypes of the toxin within the next one to two years and to develop a vaccine for the other two types within five years. The new vaccines could eliminate the threat of botulism as a weapon of mass destruction.
**Rilett, Laurence**  
Civil Engineering  
Region 7 University Transportation Center  
Department of Transportation-Research and Innovative Technology Administration  
$6,225,000  
10/1/06 – 9/30/11

The U.S. Department of Transportation’s Research and Innovative Technology Administration has designated UNL’s Mid-America Transportation Center as a regional university transportation center. MATC is a consortium with UNL as the lead institution with regional partners Kansas State University, University of Kansas, University of Missouri-Rolla and Lincoln University of Missouri. The Nebraska Department of Roads and the Kansas and Missouri Departments of Transportation also are key partners. Laurence Rilett, Keith W. Klaasmeyer chair in engineering and technology in UNL’s civil engineering department, directs the center. Its focus is “improving safety and minimizing risk associated with increasing multi-modal freight movement on the U.S. surface transportation system.” MATC will focus on safety research related to rural transportation. Key safety research areas include traffic control, animal crashes, safer at-grade railway crossings and work zones, and the development of more effective and economical roadside crash barriers. The university transportation center program supports transportation research, education and technology transfer that promote scientific innovations in a variety of transportation modes and disciplines. Region 7 serves Iowa, Kansas, Missouri and Nebraska. It is one of 10 regional university transportation centers in the nation.

**Sheridan, Susan**  
Educational Psychology; Center on Children, Youth, Families and Schools  
Parent Engagement and Learning Birth to Five  
$5,077,441  
9/26/03 – 7/31/09

Susan M. Sheridan, Willa Cather professor of educational psychology, and co-investigator Carolyn Edwards, Willa Cather professor of psychology and child, youth and family studies, are leading a team of researchers from UNL and UNMC in a school-readiness project funded by three federal agencies. The team will launch and evaluate a comprehensive, community-based early education program for children aged 0-5. The goal is to increase children’s readiness for school by teaching parents to build an effective relationship with their children at home and to be active participants in their children’s learning when they enter school. The program is designed to enhance children’s cognitive, behavioral and socioemotional well-being, which together set the stage for school readiness.
Tsymbal, Evgeny  
** Nebraska Center for Materials Research Science & Engineering  
Center: Quantum Spin**

$6,321,899  
9/1/08 – 8/31/14  
NSF

Evgeny Tsymbal, professor of physics and astronomy at UNL, leads the Materials Research Science and Engineering Center. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from the Departments of Physics and Astronomy, Chemistry and Mechanical Engineering, and the School of Biological Sciences. MRSEC projects focus on fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

Umstadter, Donald  
**Physics and Astronomy**

* High-Energy Laser for Detection, Inspection, & Non-Destructive Testing

$4,759,860  
5/15/08 – 5/14/10  
DOD-Air Force Office of Scientific Research

Banerjee, Sudeep  
Shadwick, Bradley  

With support from the Department of Defense Air Force Office of Scientific Research, Donald Umstadter, professor of physics and astronomy, will complete construction of a high-energy laser system at the UNL Extreme Light Laboratory capable of delivering a peak power of 1 petawatt. This project is critical to the development and performance of laser-driven radiation sources used for detection, inspection and non-destructive testing. The most immediate result will be a dramatic increase in the brightness and quality of the laser-driven electron beams and x-rays, with applications for detecting cracks in aging critical components and detecting special nuclear materials through large thicknesses of shielding.
AWARDS OF $3 MILLION OR MORE

Velander, William  
Chemical and Biomolecular Engineering  
cGMP Recombinant FIX and Oral Hemophilia B Therapy  
$9,587,071  
DHHS-NIH-NHLBI  
9/6/05 – 8/31/10  
Van Cott, Kevin  
Chemical and Biomolecular Engineering

William Velander, Donald R. Voelte Jr. and Nancy A. Keegan endowed chair in engineering, is principal investigator in a partnership funded by a $9.9 million grant from the National Institutes of Health/National Heart, Lung and Blood Institute. The goal is to develop an abundant, pure, safe and effective therapy for Hemophilia B using recombinant human coagulation proteins produced in the milk of transgenic pigs. The project builds on innovative bioengineering technologies pioneered by Velander that enable improved intravenous and novel oral delivery of hemophilic factors to patients. Hemophilia B is a congenital bleeding disorder that causes pain, crippling injuries and early death. It can be treated by Factor IX, a blood protein, but the costs are prohibitive and most patients do not receive it. Velander’s project isolates Factor IX in the milk of transgenic pigs.

Production and Purification of Fibrinogen Components for Production of Fibrin Sealant of Hemostatic Dressing  
$5,398,990  
DOD-Army Medical Research  
8/1/05 – 10/31/09  
Van Cott, Kevin  
Chemical and Biomolecular Engineering

Velander is also leading a project, funded by the Department of Defense, to develop processes to produce recombinant fibrinogen and other blood proteins for bandages and implant devices, and to conduct research and clinical trials on their effectiveness. The fibrinogen bandage is a potentially life-saving technology for patients who lose large amounts of blood. When applied, the bandage immediately begins clotting the wound, stemming blood loss. The technology could be used in battlefield or other applications where patients are hemorrhaging. Fibrinogen technology could also play a role in helping develop implantable devices with increased biological compatibility. Fibrinogen made from human plasma is scarce and expensive; Velander has developed a process for producing it from transgenic cattle bred with a human gene that enables them to produce fibrinogen.

Whitbeck, Les  
Sociology  
Ojibwe Pathways Through the High School Years  
$3,121,678  
DHHS-NIH-NIDA  
9/3/05 – 6/30/12  
Johnson, Kurt  
Sociology

Les Whitbeck, professor of sociology, is coordinating a seven-year project, funded by the National Institute on Drug Abuse, to investigate risk and resilience for early onset substance use and abuse among pre-teen Native children in the Upper Midwest.
Charles Wood, Lewis Lehr/3M university professor of biological sciences, is the director of the Nebraska Center for Virology. The center, funded by the National Institutes of Health, combines the expertise and facilities of Nebraska’s leading biomedical research institutions: UNL, the University of Nebraska Medical Center and Creighton University. Center research addresses pathogenic and therapeutic aspects of some of the most devastating viral and neuroimmune disorders facing the global community, including AIDS, HIV-associated cancers, Alzheimer’s disease and chronic infections caused by herpes viruses and a new class of infectious agents called prions.

Kaposi’s Sarcoma & Human Herpesvirus in Africa
$3,580,682 DHHS-NIH-National Cancer Institute
9/30/03 – 6/30/09

Since the onset of the AIDS epidemic, Kaposi’s sarcoma has become the most frequently diagnosed pediatric cancer in sub-Saharan Africa. It is associated with Human Herpesvirus 8 (HHV-8) and Kaposi’s Sarcoma Herpesvirus (KSHV). The project looks to understand how these viruses are transmitted to children by studying children in Lusaka, Zambia. The goal is to establish the rates of transmission and to identify virologic, immunologic and ethnographic risk factors that predispose children to HHV-8 infection. It is anticipated that the information could be used to develop intervention strategies.

John Yohe, associate professor in the Department of Agronomy and Horticulture, directs the International Sorghum/Millet (INTSORMIL) Collaborative Research Support Program. INTSORMIL is a collaborative international organization that supports research focused on improving nutrition and increasing income in developing countries and the United States. Scientists from U.S. land grant universities collaborate with scientists in host countries in the development of technology to improve production and utilization of sorghum and millet and facilitate natural resource management. Their work is done in Africa, Eurasia, Latin America and the United States.
Interdisciplinary Team
Infrastructure for the Enhancement of Systems Biology Research & Development at UNL
$4,329,877 NSF-EPSCoR
7/1/07 – 6/30/10

This grant supports multi-campus collaborative research between biologists and engineers for creating a strategic research niche in epigenetics—the study of heritable changes in gene functions not associated with changes in DNA sequence. Much of what comprises the complexity of multi-cellular organisms is programmed within the network of interacting molecules—protein, RNA and DNA—known collectively as chromatin. Engineers will create nano-devices for delivering molecules into cells for better understanding the role of chromatin in cell function and its response to the environment.
## Awards of $1 Million to $2,999,999

*Active awards in 2008*

*Indicates new in 2008*

<table>
<thead>
<tr>
<th>Name</th>
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<td>Mechanistic Studies of Functional Switching in the PutA Flavoprotein</td>
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<td>McNair Scholars Project and the University of Nebraska–Lincoln</td>
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<td>* Value-Added Products from Renewable Biofuels</td>
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DeKraai, Mark
Child Mental Health SIG
$2,379,313
Nebraska Department of Health and Human Services

Diamond, Judy
University of Nebraska State Museum
* Omaha Science Media Project: Improving Science Literacy through Media Experiences
$1,471,768
Omaha Public Schools
Struthers, Amy
Journalism and Mass Communications
Angeletti, Peter
Biological Sciences

World of Viruses
$1,266,290
Nebraska Center for Virology
Wood, Charles

Doll, Elizabeth
Educational Psychology
Evolving Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools
$1,261,684
Department of Education
Bruning, Roger
Educational Psychology
Bonnstetter, Ron
Teaching, Learning and Teacher Education
Horn, Christy
Educational Psychology

Dzenis, Yuris
Engineering Mechanics
NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers
$1,095,200
NSF
Zeng, Xiao Cheng
Chemistry
Feng, Ruqiang
Engineering Mechanics
Turner, Joseph
Engineering Mechanics
Larsen, Gustavo
Chemical and Biomolecular Engineering

NIRT: Nanomanufacturing and Analysis of Active Hierarchical Nanofilamentary Nanostructures
$1,000,000
NSF
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Chemistry
Feng, Ruqiang
Engineering Mechanics
Turner, Joseph
Engineering Mechanics
Poser, Susan
Center for the Teaching and Study of Applied Ethics
Tomkins, Alan
Public Policy Center

Eccarius, Malinda
Special Education and Communication Disorders
Mountain-Prairie Upgrade Partnership
$1,155,054
Department of Education

Epstein, Michael
Special Education and Communication Disorders
On the Way Home: A Family-Centered Academic Reintegration Intervention Model
$1,443,284
Department of Education
Torkelson-Trout, Alexandra
Special Education and Communication Disorders
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<td>Functions of Mammalian Thioredoxin Reductases</td>
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<td>Selenoprotein as a Target for Cancer Prevention</td>
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<td>Methionine Sulfoxide Reduction, Selenium and Aging</td>
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<td>Identity &amp; Functions of Selenoprotein Genes</td>
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$1 MILLION — $2,999,999
Horn, Christy  
Equity, Access and Diversity Programs  
$1,003,691  
* Building Accepting Campus Communities  
Department of Education  

Bruning, Roger  
Educational Psychology  
Sydik, Jeremy  
Equity, Access and Diversity Programs  

Hubbard, Kenneth  
School of Natural Resources  
Regional Climate Services Support in the High Plains Region: The High Plains Regional Climate Center  
$1,200,000  
Department of Commerce-NOAA  

Jones, David  
Biological Systems Engineering  
Strengthening Transitions into Engineering Program  
$1,648,354  
NSF  
Ballard, John  
Engineering  
Perez, Lance  
Electrical Engineering  

Jones, Vicky  
Northeast Research & Extension Center  
Northeast Nebraska Paraprofessional Ladder Project  
$1,976,095  
Department of Education  
Lopez, William  
Teaching, Learning and Teacher Education  

Josiah, Scott  
Nebraska State Forest Service  
Cooperative Forestry Program  
$2,594,613  
Department of Agriculture-FS  

Kamil, Alan  
Biological Sciences  
Mechanisms of Visual Search and Attention  
$1,029,062  
DHHS-NIH-NIMH  
Bond, Alan  
Biological Sciences  

Kirby, Roger  
Physics and Astronomy  
Track 2, GK-12: Project Fulcrum: Phase II  
$1,987,732  
NSF  
Claes, Daniel  
Physics and Astronomy  

Knoche, Lisa  
Center on Children, Youth, Families and Schools  
Rural Language and Literacy Connections (Rural LLC)  
$2,741,563  
Department of Education  
Raikes, Helen  
Center on Children, Youth, Families and Schools; Child, Youth and Family Studies  

Koszewski, Wanda  
Nutrition and Health Sciences  
Food Stamp Nutrition Education Program  
$1,362,934  
Nebraska Department of Health & Human Services  
Birnstihl, Elizabeth  
IANR Cooperative Extension  
Schnepf, Marilynn  
Nutritional and Health Sciences  

Lee, Jaekwon  
Biochemistry  
Mechanistic Insights into Homeostatic Copper Ion Acquisition  
$1,058,638  
DHHS-NIH-NIDDK  

Lou, Marjorie  
Veterinary and Biomedical Sciences  
Protein-Thiol Mixed Disulfide in Cataractogenesis  
$2,116,675  
DHHS-NIH-National Eye Institute  

$1 MILLION — $2,999,999
Mackenzie, Sally  Center for Plant Science Innovation  
* TRMS: An Integrative Study of Plant Mitochondrial Biology  
$1,420,753  NSF  
Christensen, Alan  Biological Sciences  
Elthon, Thomas  Agronomy and Horticulture  
Wang, Dong  Statistics  

Meagher, Michael  Chemical and Biomolecular Engineering  
* USAMRAA CGMP Production Contract #1  
$2,083,998  DOD-Army Medical Research  
Swanson, Stephen  Chemical and Biomolecular Engineering  
van Cott, Kevin  Chemical and Biomolecular Engineering  

Process Research and Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin  
$2,877,000  DOD-Army Space and Missile Defense Command  

Therapeutic Agents & Vaccines against Biological Warfare  
$2,905,899  DOD-Army Medical Research  

Purification of proPRT-201 and Production of Reference Standard  
$2,464,390  Proteon Therapeutics  

Process Development & cGMP Production  
$1,228,735  Targepeutics Inc.  

Mendoza-Gorham, Joan  Student Affairs  
Classic Upward Bound  
$1,250,000  Department of Education  

Upward Bound Math/Science Program  
$1,000,000  Department of Education  

Nelson, J. Ron  Special Education and Communication Disorders  
Portales a Aprender Leer (PAL)  
$2,687,442  Department of Education  

Parkhurst, Lawrence  Chemistry  
Assembly Mechanisms of TBP–Nucleated Complexes  
$1,107,318  DHHS-NIH-NIGMS  

Robertson Jr., Vaughn  Student Affairs  
UNL Educational Talent Search  
$2,091,823  Department of Education  

Rutenbeck, Kathy  Student Affairs  
Upward Bound-Northeast Nebraska  
$1,458,320  Department of Education  

Schaefer, Matthew  Law  
* University of Nebraska College of Law Space & Telecommunications Law Program: Filling a National Need, Advancing the Field  
$1,717,370  NASA  
Willborn, Steven  Law  
Leiter, Richard  Law
Scott, Stephen  Computer Science and Engineering
* An Extensible Semantic Bridge between Biodiversity and Genomics
$1,367,121  NSF
Soh, Leen-Kiat  Computer Science and Engineering
Henninger, Scott  Computer Science and Engineering
Jameson, Mary Liz  University of Nebraska State Museum
Moriyama, Etsuko  Biological Sciences; Center for Plant Science Innovation

Sheridan, Susan  Educational Psychology; Center on Children, Youth, Families and Schools
Evaluation of Efficacy of CBC for Addressing Disruptive Behaviors of Children-at-Risk for Academic Failure
$1,368,067  Department of Education
Glover, Todd  Center on Children, Youth, Families and Schools

Simpson, Melanie  Biochemistry
Role of Hyaluronan Matrix in Prostate Cancer Progression
$1,056,209  DHHS-NIH-NCI

Spreitzer, Robert  Biochemistry
Role of the Rubisco Small Subunit
$1,001,500  Department of Energy

Starace, Anthony  Physics and Astronomy
Dynamics of Few-Body Atomic Processes
$1,216,337  Department of Energy

Storz, Jay  Biological Sciences
* Mechanisms of Hemoglobin Adaptation to Hypoxia in High-Altitude Rodents
$1,323,748  DHHS-NIH-NHLBI
Moyiyama, Hideaki  Center for Biotechnology

Swanson, David  Computer Science and Engineering
US CMS Tier 2 Center
$1,973,813  University of California-Los Angeles
Bloom, Kenneth  Physics and Astronomy
Dominguez, Aaron  Physics and Astronomy

Umstadter, Donald  Physics and Astronomy
Research & Development of a High-Power-Laser-Driven Electron Accelerator Suitable for Applications
$1,250,029  DOD-DARPA
Banerjee, Sudeep  Physics and Astronomy

Tunable, Monoenergetic Gamma-Ray Source for Identification of Embedded SNM
$2,940,284  Department of Homeland Security-DNDO
Banerjee, Sudeep  Physics and Astronomy
Van Etten, James  
DNA Replication & Gene Expression of Chlorella Viruses  
$1,215,694  
DHHS-NIH-NIGMS  
Plant Pathology

Dunigan, David  
Kang, Ming  
Agarkova, Irina  
Gurnon, James  
Plant Pathology

Verma, Shashi  
Carbon Sequestration in Dryland & Irrigated Agroecosystems  
$1,950,000  
Department of Energy  
Agronomy and Horticulture  
School of Natural Resources

Cassman, Kenneth  
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Yang, Haishun  
Walters, Daniel  
Suyker, Andrew  
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Agronomy and Horticulture  
Biological Sciences  
School of Natural Resources  
Agronomy and Horticulture  
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Agronomy and Horticulture  
Chemical and Biomolecular Engineering

Viljoen, Hendrik  
A Rational Design of a Platform for de novo Gene Synthesis  
$1,315,289  
DHHS-NIH-NCRR  
Chemical and Biomolecular Engineering

Subramanian, Anu  
Vortex-Tube Based Thermocycler w/Intelligent Software  
$1,068,925  
DHHS-NIH-NCRR  
Mechanical Engineering

Walker, Judy  
EMSW21-MCTP: Nebraska Mentoring through Critical Transition Points  
$2,500,000  
NSF  
Mathematics

Weeks, Donald  
Development of Dicamba-Resistant Crops  
$2,500,000  
Monsanto Co.

Whitbeck, Les  
Resilience through the High School Years  
$2,654,155  
DHHS-NIH-NIMH  
Sociology

Great Plains Cultural Ways Mental Health Careers Program  
$1,120,576  
DHHS-NIH-NIMH  
Sociology

White, Lynn  
Infertility: Pathways & Psychosocial Outcomes  
$2,559,414  
DHHS-NIH-NICHD  
Sociology
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<td>* Biotin Deficiency Impairs Silencing of Repeat Regions and Retrotransposons</td>
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Awards of $200,000 - $999,999
Active awards in 2008
* Indicates new in 2008

**Adenwalla, Shireen**  Center for Materials and Nanoscience  * Development of Semiconducting Boron Carbide Neutron Detectors for Astrobiological Applications
$299,991  NASA

**Admiraal, David**  Civil Engineering  Low-Cost Energy Dissipation at Culvert Exits
$201,856  Nebraska Department of Roads

**Albrecht, Julie**  Nutrition and Health Sciences  * Food Safety for Families with Young Children
$599,503  Department of Agriculture-NRICGP

**Alexander, Dennis**  Electrical Engineering  Ultrafast Laser Interaction Processes for Libs & Other Sensing Technologies
$600,000  University of Central Florida

**Alfano, James**  Center for Plant Science Innovation; Plant Pathology  Secretion Signals & Type III Chaperones in Pseudomonas Syringae Type III Secretion System
$440,000  NSF

Dissecting the Function of HrpJ & HrpK – Two Type III Secreted Proteins Required for Injection of Effectors into Plant Cells
$398,500  Department of Agriculture-NRICGP

**Allen, Craig**  School of Natural Resources  Monitoring, Mapping & Risk Assessment for Non-Indigenous Invasive Species in Nebraska
$325,081  Nebraska Environmental Trust
Merchant, James  School of Natural Resources

Cross-Scale Structure & Scale Breaks in Complex Systems
$248,986  James S. McDonnell Foundation

**Allen, David**  Engineering  U.S.-Brazil Dual-Degree in Infrastructure & Sustainability Engineering Program
$208,211  Department of Education-FIPSE

EMME: US-EU Transatlantic Degree Program in Engineering Mechanics/Materials Engineering
$407,997  Department of Education Engineering
Chandra, Namas  Engineering Mechanics
Negahban, Mehrdad
Anderson, Mark  Geosciences
  * Development of Northern Hemisphere Snow & Ice Climate Data Records
  Rutgers University
  $213,461
  Atmospheric Conditions Associated with Sea Ice Characteristics over Arctic Ocean during Melt Season
  $208,699

Asgarpour, Sohrab  Electrical Engineering
  * Reliability Modeling and Maintenance Optimization of Aging Substations
  NSF
  $206,082

Atkin, Audrey  Biological Sciences
  Wild-Type PPR1 mRNA Decay by Yeast Nonsense-Mediated mRNA Decay Pathway
  NSF
  $403,219
  Moriyama, Etsuko  Center for Plant Science Innovation

Avramov, Luchezar  Mathematics
  * Cohomology and Structure of Commutative Algebras
  NSF
  $260,667
  Homology & Cohomology over Commutative Rings
  NSF
  $356,322

Avramova, Zoya  Biological Sciences
  * Lipid-Signaling and Epigenetic Regulations in Arabidopsis: Are Myotubularins the Link?
  NSF
  $450,000
  ATX1, Epigenetic Regulator of Plant Development
  NSF
  $442,500
Azizinamini, Atorod  Civil Engineering
* Comprehensive Evaluation of Fracture Critical Bridges
$286,348 Nebraska Department of Roads

Simple for Dead-Continuous for Live Load System
with Partial Pre-Fabricated Deck System
$242,038 Nebraska Department of Roads

Development of Design Tools for Steel Bridge Systems,
Simple for Dead Loads & Continuous for
Superimposed Dead Load & Live Loads
$226,306 Nebraska Department of Roads

Steel Box System Monitoring of N-2 over I-480 Bridge
$292,244 Nebraska Department of Roads

IBRC 2002 Project

$240,000 Nebraska Department of Roads

Folded Plate Technology: Research, Design & Monitoring
$445,000 Nebraska Department of Roads

Development of Field Data for Effective Implementation of
Mechanistic-Empirical Pavement Design Procedure
$315,252 Nebraska Department of Roads

Negahban, Mehrdad  Engineering Mechanics

Baenziger, P. Stephen  Agronomy and Horticulture
Developing Winter Wheat with Improved Fusarium Head Blight
Tolerance by Conventional and Transgenic Approaches
$354,437 Department of Agriculture-ARS

Mitra, Amit  Plant Pathology
Watkins, John  Plant Pathology
Clemente, Thomas  Agronomy and Horticulture
Baltensperger, David  Panhandle Research and Extension Center

Genetic Basis of Agronomic Traits
Controlled by Chromosome 3A in Wheat

$390,000 Department of Agriculture-NRICGP
Eskridge, Kent  Statistics
Dweikat, Ismail  Agronomy and Horticulture

Developing Small Grains Cultivars
Optimally Suited for Organic Production

$755,937 Department of Agriculture-NRICGP
Flores, Rolando  Food Science and Technology
Wegulo, Stephen  Plant Pathology
Russell, William  Agronomy and Horticulture
Shapiro, Charles  Agronomy and Horticulture
Schlegel, Vicki  Food Science and Technology
Wehling, Randy  Food Science and Technology
Knezevic, Stevan  Northeast Research and Extension Center
Hein, Gary  Panhandle Research and Extension Center
Lyon, Drew  Panhandle Research and Extension Center
Balkir, Sina  
**Electrical Engineering**  
All Solid-State Wireless Sensor Network for Nuclear Proliferation Detection  
$417,191  
Hoffman, Michael  
Department of Energy  
Electrical Engineering

Barker, Bradley  
**Center on Children, Youth, Families and Schools; 4-H State Office**  
Robotics & GPS/GIS in 4-H: Workplace Skills for the 21st Century  
$864,139  
Adamchuk, Viacheslav  
Center on Children, Youth, Families and Schools; Biological Systems Engineering

Basolo, Alexandra  
**Biological Sciences**  
Behavioral Plasticity in Preexisting Receiver Bias  
$378,000  
NSF

Batelaan, Herman  
**Physics and Astronomy**  
Matter Optics with Intense Laser Light  
$462,590  
NSF

Becker, Donald  
**Biochemistry**  
MRI: Acquisition of Beckman XL-I Analytical Ultracentrifuge  
$284,160  
NSF

Belli, Robert  
**Gallup Research Center**  
Verbal Behaviors in Computerized Lifecourse Surveys  
$409,889  
DHHS-National Institute on Aging

Benson, Andrew  
**Food Science and Technology**  
* Pyrosequencing and Community Profiling for Risk Assessment in Leafy Greens  
$370,927  
Department of Agriculture-NRICGP  
Walter, Jens  
Hutkins, Robert  
Food Science and Technology

Berkowitz, David  
**Chemistry**  
* Stereocontrolled Total Synthesis of (-)-Picropodophyllin Analogues  
$500,000  
Stockbridge Pharmaceuticals Inc.  
New Approaches to Catalyst Screening & Development  
$423,000  
NSF

Beukelman, David  
**Special Education and Communication Disorders**  
Rehabilitation Engineering Research  
Center on Communication Enhancement  
$392,328  
Duke University Medical Center

Bevins, Rick  
**Psychology**  
* Altering Nicotine Reward through Conditioning  
$339,446  
DHHS-NIH-NIDA  
Acquired Appetitive Properties of Nicotine  
$881,371  
DHHS-NIH-NIDA

$200,000 — $999,999
Bien, Mary  Management  * Examining Leadership and Adaptability in the Healthcare Industry  $308,473  Booz Allen Hamilton

Bilder, Christopher  Statistics  Disease Detection and Prevalence Estimation through Informative Group Testing  $713,250  DHHS-NIH-NIAID

Billesbach, David  Biological Systems Engineering  Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System  $559,675  Department of Energy-Berkeley National Lab

Blum, Paul  Biological Sciences  * Biohydrogenesis in the Thermotogales  $525,000  North Carolina State University

Bobaru, Florin  Engineering Mechanics  Adaptivity in Peridynamics for Composite Plates  $269,880  Department of Energy-Sandia National Laboratories

Bond, Alan  Biological Sciences  Mechanisms of Social Cognition  $540,260  DHHS-NIH-NIMH

Kamil, Alan  Biological Sciences

Brand, Jennifer  Center for Materials and Nanoscience  Novel Rare-Earth Semiconductors for Solid-State Neutron Detectors  $449,999  DOD-Defense Threat Reduction Agency

Belashchenko, Kirill  Physics and Astronomy

Dowben, Peter  Physics and Astronomy

Direct Energy Conversion with Heteroisomeric Boron Carbide Diode Devices  $238,398  Central Intelligence Agency

Brown, Mary  School of Natural Resources  * Advancing Tern and Plover Common Sense Conservation into the Future  $270,000  Nebraska Environmental Trust

Bulling, Denise  Public Policy Center  Hospital Preparedness — Bioterrorism  $230,000  Nebraska Department of Health and Human Services

Critical Incidence Stress Management Program Coordination  $309,812  Nebraska Department of Health and Human Services

Burbach, Mark  School of Natural Resources  Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs  $403,293  Department of Agriculture-RMA

Ramamurthy, Byrav  Computer Science and Engineering
Burson, Dennis
Animal Science
Listeria Monocytogenes Controls in Ready to Eat Meat Products
$599,732
Department of Agriculture-CSREES
Thippareddi, Harshavardhan
Food Science and Technology

Cady, Daniel
Cooperative Extension
Nebraska Technology Transfer Center at UNL
$280,000
Nebraska Department of Roads

Development of Tools for Rating Bridges & Application to State Bridges
$893,418
Nebraska Department of Roads
Azizinamini, Atorod
Civil Engineering

Cantrell, Randolph
Center for Applied Rural Innovation
* Marketing Rural Communities to Attract and Retain Workers
$498,558
Department of Agriculture-NRICGP
Burkhart-Kriesel, Cheryl
Panhandle Research and Extension Center

Relocation to the Buffalo Commons: Marketing Approach to Understand Residential Decisions among Migrants
$220,387
Department of Agriculture-NRICGP
Burkhart-Kriesel, Cheryl
Panhandle Research and Extension Center
Johnson, Bruce
Agricultural Economics

Carr, Timothy
Nutrition and Health Sciences
Regulation of Cholesterol Absorption by Plant Sterol & Stanol Esters
$466,915
Department of Agriculture-NRICGP

Cassman, Kenneth
Agronomy and Horticulture
Demonstration/Validation of a Dynamic Real-Time Decision Support System for Irrigation Management with Limited Water Supply
$230,537
Nebraska Corn Board
Dobermann, Achim
Agronomy and Horticulture
Walters, Daniel
Agronomy and Horticulture
Yang, Haishun
Agronomy and Horticulture
Irmak, Suat
Biological Systems Engineering
Kranz, William
Northeast Research and Extension Center
Shapiro, Charles
Northeast Research and Extension Center
Tarkalson, David
West Central Research and Extension Center

Cerutti, Heriberto
Biological Sciences; Center for Plant Science Innovation
Histone Modifications & Transcriptional Silencing in Chlamydomonas
$448,235
NSF

RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas
$994,854
DHHS-NIH-NIGMS
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<td>Development of Groundwater Flow Model in the Lower Platte North NRD Area</td>
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<td>Public Policy Center</td>
<td>Evaluation of Public Engagement Demonstration Projects on Pandemic Influenza (E-PEDPPI)</td>
<td>DHHS-Centers For Disease Control</td>
<td>$348,716</td>
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<td>Bulling, Denise</td>
<td>Public Policy Center</td>
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$200,000 — $999,999
DiMagno, Stephen  Chemistry  
Anhydrous Fluoride Salts  NSF  
$420,000

Dominguez, Aaron  Physics and Astronomy  
PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector  
University of Kansas Center for Research  Physics and Astronomy  
$406,500

Dowben, Peter  Center for Materials and Nanoscience  
Surface Chemistry of Adsorbates on Crystalline Polymers  NSF  
$690,000

Drijber, Rhae  Agronomy and Horticulture  
Developing Technologies to Improve Soil & Nutrient Management  Department of Agriculture-ARS  
$261,000

Du, Liangcheng  Chemistry  
Biosynthesis of Mycotoxin Fumonisins: Characterization of Enzymes for Vicinal Diol & Tricarballylic Ester Formation  NSF  
$284,667

Ducharme, Stephen  Center for Materials and Nanoscience; Physics and Astronomy  
* Rational Design of Molecular Ferroelectric Materials and Nanostructures  Department of Energy-EPSCoR  Chemistry  
$419,054

$240,000

Duppong Hurley, Kristin  Special Education and Communication Disorders  
* Treatment Implementation and Mental Health Outcomes for Youth in Residential Care  DHHS-NIH-NIMH  
$510,300

Dussault, Patrick  Chemistry  
* Detection of Emerging Classes of Explosives  DOD-DARPA  Chemistry  
$950,000

Cerny, Ronald  Chemistry  
DiMagno, Stephen  Chemistry  
Hage, David  Chemistry  
Harbison, Gerard  Chemistry  
Redepenning, Jody  Chemistry  

* Directed Reactions of Carbonyl Oxides: A New Approach to Ozonolysis  NSF  
$360,000

$200,000 – $999,999
Dwyer, Matthew
Computer Science and Engineering
Program Analysis Techniques to Support Dependable RTSJ Applications
$207,519 NSF
Elbaum, Sebastian Computer Science and Engineering
Goddard, Stephen Computer Science and Engineering
Rothermel, Gregg Computer Science and Engineering

Finite-State Verification for High-Performance Computing
$300,000 NSF

CSR-EHS Predictable Adaptive Residual Monitoring for Real-time Embedded Systems
$500,000 NSF
Goddard, Stephen Computer Science and Engineering
Elbaum, Sebastian Computer Science and Engineering

Dzenis, Yuris
Engineering Mechanics
Nanoengineered Interfaces
$250,002 NSF
Modeling-Based Control of Electrospinning Process
$275,000 NSF

Eccarius, Malinda
Special Education and Communication Disorders
Mountain Prairie Upgrade Partnership - Early Childhood
$781,642 Department of Education
Marvin, Chris Special Education and Communication Disorders

Eckhardt, Craig
Chemistry
Experimental Investigation of the Role of Defects in Detonation Sensitivity of Energetic Materials
$600,000 DOD-Office of Naval Research
A Study of the Mechanochemistry of Carbamazepine Polymorphs
$227,200 Pfizer Inc./PGRD Groton Labs

Elbaum, Sebastian
Computer Science and Engineering
ITR: Dependable End-User Software
$253,573 NSF

Engen-Wedin, Nancy
Teaching, Learning and Teacher Education
Indigenous Roots Teacher Education Program
$704,730 Department of Education
McGowan, Thomas Teaching, Learning and Teacher Education

Epstein, Michael
Special Education and Communication and Disorders
* Evaluation of Family Reunification Program
$219,454 Father Flanagan’s Boys’ Home

Leadership Training in Emotional Disturbance Disorders
$601,733 Department of Education
Duppong Hurley, Kristin Special Education and Communication and Disorders
Torkelson-Trout, Alexandra Special Education and Communication and Disorders
Fabrikant, Ilya  Physics and Astronomy
  Collision Processes Involving Low-Energy Electrons  $215,000  NSF
  Electron-Molecule Collisions in Different Environments  $240,000  NSF

Faller, Ronald  Civil Engineering
  * Dynamic Evaluation of Box Beam End Terminal Using the MASH 2008 Guidelines  $204,533  Nebraska Department of Roads
  Sicking, Dean  Midwest Roadside Safety
  Reid, John  Mechanical Engineering

* Development of a New Precast Concrete Bridge Railing System  $229,820  Nebraska Department of Roads
  Bielenberg, Robert  Civil Engineering
  Reid, John  Mechanical Engineering
  Tadros, Maher  Civil Engineering

Flores, Rolando  Food Science and Technology
  Midwest Advanced Food Manufacturing Alliance  $340,764  Department of Agriculture-CSREES

Foley, Brett  Educational Psychology
  Consulting Services/Assist Oklahoma Commission for Teacher Preparation  $452,064  Oklahoma Office of Public Affairs

* Conducting Validity Studies for South Dakota Department of Education  $372,435  South Dakota Department of Education
  Geisinger, Kurt  Educational Psychology

Fromm, Michael  Center for Biotechnology
  * MRI: Acquisition of High Capacity DNA Sequencing System  $714,750  NSF

Gardner, Scott  University of Nebraska State Museum; Biological Sciences
  Mongolia Vertebrate Parasite Project  $619,991  NSF

* Enabling Access to Priority Taxa for Biodiversity Studies in the Manter Laboratory of Parasitology  $507,397  NSF
  Jimenez-Ruiz, Francisco  University of Nebraska State Museum

$200,000 – $999,999
Gay, Timothy  Physics and Astronomy
* MRI: Development of a Rubidium Spin Filter as a Source of Polarized Electrons
$285,000  NSF
Batelaan, Herman  Physics and Astronomy
Uiterwaal, Kees  Physics and Astronomy
Polarized Electron and Photon Physics
$375,000  NSF

Geisinger, Kurt  Educational Psychology
* Technical Review of the 2006 Grade 3 Florida Comprehensive Assessment Test Results and Related Tasks
$200,000  Florida Department of Education

Giesler, Loren  Plant Pathology
* Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach
$205,000  North Central Soybean Research Program

Gibson, Robert  Biological Sciences
GAANN Fellowship for Ecology, Evolution & Behavior at UNL
$625,000  Department of Education

Gitelson, Anatoly  School of Natural Resources
* Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach
$496,124  NASA
Verma, Shashi  School of Natural Resources
Suyker, Andrew  School of Natural Resources
*Responses of Coastal Waters to Terrestrial Inputs of Elemental CNP in Urbanizing Coastal Regions
$264,990  University of Maryland
Rundquist, Donald  School of Natural Resources
Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins
$598,130  NASA

Glover, Todd  Center on Children, Youth, Families and Schools
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation
$499,936  Nebraska Department of Education
Daly, Edward  Center on Children, Youth, Families and Schools; Educational Psychology
McCurdy, Merilee  Center on Children, Youth, Families and Schools; Educational Psychology

Goddard, Stephen  Computer Science and Engineering
CRI: IAD: Towards Cyber-Physical Computing at Scale: A Life-Size Experimental Facility for Applied Sensor Networks Research
$200,000  NSF
Ci, Song  Computer and Electronics Engineering
Peng, Dongming  Computer and Electronics Engineering
Sharif-Kashani, Hamid  Computer and Electronics Engineering
Perez, Lance  Electrical Engineering
Goedert, James
Construction Systems
$293,660 Department of Housing and Urban Development

Bernstein, Stuart
Construction Systems
Holmes, William
Construction Systems
Morcous, George
Construction Systems
Schwer, Avery
Construction Systems

Goodman, Richard
Food Science and Technology
Assessing the Potential Allergenicity of Proteins Introduced by Genetic Engineering
$450,000 Environmental Protection Agency

Schlegel, Vicki
Food Science and Technology
Taylor, Stephen
Food Science and Technology

Gosselin, David
School of Natural Resources
Earth Science Institute for Elementary Educators
$356,094 NASA

Bonnstetter, Ronald
Teaching, Learning and Teacher Education

Online Master’s Degree in Applied Science Education
$540,345 Toyota USA Foundation

Bonnstetter, Ronald
Teaching, Learning and Teacher Education
Strand, Billie
Extended Education and Outreach

Graef, George
Agronomy and Horticulture
* Quality Traits Regional Tests
$225,535 United Soybean Board/Smith/Bucklin

* Soybean Breeding and Genetic Studies for Nebraska
$203,443 Nebraska Soybean Board
Specht, James
Agronomy and Horticulture

Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches
$371,120 Department of Agriculture-ARS
Clemente, Thomas
Agronomy and Horticulture
Steadman, James
Plant Pathology

Greve, Vickie
Northeast Research and Extension Center
Communities Together Can
$657,000 Department of Agriculture-CSREES
Swanson, Douglas
Cooperative Extension

Hage, David
Chemistry
Chromatographic Automation of Immunoassays
$946,982 DHHS-NIH-NIGMS

Chromatographic Studies of Functional Proteomics
$756,640 DHHS-NIH-NIDDK

Harris, Steven
Center for Plant Science Innovation;
Plant Pathology
Autophagy in Fungal Hyphae: Functional Genomic & Mechanical Strength Studies
$417,852 University of Maryland-Baltimore
Harshman, Lawrence  
**Comparative Functional Genomics of Drosophila Obesity**  
$516,548  
Cornell University

Molecular Evolution of Genes Expressed in D. melanogaster Sperm Storage Structures  
$289,213  
Moriyama, Etsuko  
Center for Plant Science Innovation

**Genome Biology of Innate Immunity: Genetic Dissection of Drosophila melanogaster Responses to Bacillus Infection**  
$452,163  
Benson, Andrew  
Food Science and Technology
Kachman, Stephen  
Statistics

Harvey, F. Edwin  
**School of Natural Resources**  
Investigation of the Role of Rainwater Basin Wetlands in Contributing to the Functions of Groundwater Recharge, Water Quality Improvement, and the Wildlife Habitat, including an Assessment of the Impact of Sediment on these Functions  
$386,520  
Nebraska Game and Parks Commission

**Habitat Conservation Plan for the Salt Creek Tiger Beetle and the Eastern Saline Wetlands of Nebraska**  
$380,000  
Nebraska Game and Parks Commission

Hay, DeLynn  
**IANR-Cooperative Extension**  
North Central Region Sustainable Agriculture Professional Development Program—FY 2005  
$910,283  
Department of Agriculture-CSREES

Hayes, Michael  
**School of Natural Resources**  
Drought Mitigation, Nebraska Project  
$347,246  
Svoboda, Mark  
School of Natural Resources
Knutson, Cody  
School of Natural Resources
Wardlow, Brian  
School of Natural Resources

Transitioning the Drought Impact Reporter into an Operational System  
$445,257  
Department of Commerce-NOAA-NCTP

**Estimating the Impacts of Complex Climatic Events: Drought in Colorado, Nebraska & New Mexico**  
$300,000  
Department of Commerce-NOAA

Developing a Drought Preparedness Framework for Tribal Governments: Moving from Crisis to Risk-Based Management  
$609,539  
Knutson, Cody  
School of Natural Resources
Svoboda, Mark  
School of Natural Resources

Hebets, Eileen  
**Biological Sciences**  
Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids  
$240,000  
Chicago Community Trust/Searle Scholar
Henry, Christopher  Biological Systems Engineering  Livestock Producer Environmental Assistance Project  $600,000  Nebraska Environmental Trust

Development of Alternative Technologies for Small Livestock Producers  $221,881  Nebraska Department of Environmental Quality

Gross, Jason  Biological Systems Engineering

Hergert, Gary  Panhandle Research and Extension Center  Enhancing Irrigation Management Tools & Developing a Decision Support System for Managing Limited Irrigation Supplies for the High Plains  $885,093  Department of Agriculture-RMA-FCIC

Burgener, Paul  Panhandle Research and Extension Center

Lyon, Drew  Panhandle Research and Extension Center

Martin, Derrel  Biological Systems Engineering

Pavlista, Alexander  Panhandle Research and Extension Center

Supalla, Raymond  Agricultural Economics

Urrea Florez, Carlos  Panhandle Research and Extension Center

Yonts, C. Dean  Panhandle Research and Extension Center

Demonstrate & Adapt Remote Sensing Technology to Produce Consumptive Water Use Maps for the Nebraska Panhandle  $239,951  Department of Agriculture-NRCS

Baltensperger, David  Panhandle Research and Extension Center

Berger, Aaron  Panhandle Research and Extension Center

DeBoer, Karen  Panhandle Research and Extension Center

Hla, Aung  Panhandle Research and Extension Center

Lyon, Drew  Panhandle Research and Extension Center

Pavlista, Alexander  Panhandle Research and Extension Center

Yonts, C. Dean  Panhandle Research and Extension Center

Hibbing, John  Political Science  * DHB: Identifying the Biological Underpinnings of Political Temperaments  $587,068  NSF

Espy, Kimberly  Office of Research; Psychology

Smith, Kevin  Political Science

Dodd, Michael  Psychology

Wiebe, Sandra  Psychology

Hoagland, Kyle  School of Natural Resources  Solving Complex Issues in Nebraska: Modeling the Western Platte River Valley-Phase II  $347,200  Environmental Protection Agency

Fritz, Sherilyn  Geosciences

Hoffman, Lesa  Psychology  * Visual Attention in Aging: Bridging Experimental and Psychometric Approaches  $322,745  DHHS-NIH-NIA

Hogan, Tiffany  Special Education and Communication Disorders  * The Lexicon and Phoneme Awareness  $430,591  DHHS-NIH-NIDCD

$200,000 — $999,999
Holmes, Mary Anne  
Geosciences  
Building a Community of Women Geoscience Leaders  
$228,774  
NSF

Holz, John  
School of Natural Resources  
Fremont Lake #20 Alum Treatment Evaluation Project  
$201,700  
Nebraska Department of Environmental Quality  
Barrow, Tadd  
School of Natural Resources  
Hoagland, Kyle  
School of Natural Resources  
Holz, Aris  
School of Natural Resources

Hu, Qi (Steve)  
School of Natural Resources  
Transition of Weather & Climate Forecasts into Effective Decision-Making Tools  
$293,732  
Department of Commerce-NOAA  
Hubbard, Kenneth  
School of Natural Resources  
Lynne, Gary  
Agricultural Economics  
Pytlik Zillig, Lisa  
Educational Psychology  
Bruning, Roger  
Educational Psychology

Hudgins, Jerry  
Electrical Engineering  
Development of System Level Modeling & Simulation Capability for SiC Power Semiconductor Devices  
$246,935  
University of South Carolina

Hunt, Robert  
University of Nebraska State Museum  
Renovation & Computerization of University of Nebraska Vertebrate Paleontology Collection  
$498,368  
NSF  
Voorhies, Michael  
University of Nebraska State Museum

Hygnstrom, Scott  
School of Natural Resources  
Development of Spatially Explicit Models of Wildlife Diseases  
$588,945  
Department of Agriculture-APHIS

Irmak, Suat  
Biological Systems Engineering  
* Quantifying Evaporation, Crop Evapotranspiration, and the Water Balance for Tilled and Untilled Fields  
$679,160  
Nebraska Department of Natural Resources  
Irmak, Ayse  
School of Natural Resources  
Rundquist, Donald  
School of Natural Resources  
Eisenhauer, Dean  
Biological Systems Engineering  
Van Donk, Simon  
Biological Systems Engineering  
Zoubek, Gary  
Southeast Research and Extension Center  
Rees, Jennifer  
Southeast Research and Extension Center  
Siekmann, Darrel  
Southeast Research and Extension Center  
VanDeWalle, Brandy  
Southeast Research and Extension Center  
Yoder, Ronald  
Biological Systems Engineering

Measurement of Growing Season Actual Crop Evapotranspiration and Crop Coefficients, and Dormant Season Evaporative Losses for Key Vegetation Surfaces in the Central Platte Natural Resources District  
$492,564  
Central Platte NRD  
Irmak, Ayse  
Biological Systems Engineering  
Martin, Derrel  
Biological Systems Engineering  
van Donk, Simon  
Biological Systems Engineering  
Verma, Shashi  
School of Natural Resources

$200,000 — $999,999
Jameson, Mary Liz  University of Nebraska State Museum  
Monography & Phylogeny of New World Scarabaeoid Beetles  
$755,300  NSF  
Ratcliffe, Brett  Entomology  

Jiang, Hong  Computer Science and Engineering  
SAM*2 Toolkit: Scalable & Adaptive Metadata Management for High-End Computing  
$602,326  NSF  

Jones, Clinton  Veterinary and Biomedical Sciences  
Functional Analysis of biCPO  
$375,000  Department of Agriculture-NRICGP  
Functional Analysis of Proteins Encoded by the Bovine Herpesvirus 1 Latency Related Gene  
$374,475  Department of Agriculture-CSREES  

Does HSV-1 Latency Associated Transcript (LAT) Encode a Protein?  
$402,122  DHHS-NIH-NIAID  

Jones, Erick  Industrial and Management Systems Engineering  
* RFID License Plate System Feasibility Study for Commercial Vehicle Operators  
$250,000  Nebraska Department of Roads  

Jose, H. Douglas  Agricultural Economics  
Trade Adjustment Assistance Program  
$705,000  Department of Agriculture-RMA  

Josiah, Scott  Nebraska State Forest Service  
Community Enhancement Program  
$500,000  Nebraska Department of Roads  

NRCS-Technical Service Provider Project  
$323,778  Department of Agriculture-NRCS  

Hazardous Fuels Reduction: Pine Ridge  
$582,380  Department of Agriculture-FS  

Kennedy, Patricia  Marketing  
Socially Constituted Food Consumption of Adolescents  
$350,000  Department of Agriculture-CSREES  
McGarvey, Mary  Economics  
Stanek-Krogstrand, Kaye  Nutrition and Health Sciences  

Kim, Yong Rak  Civil Engineering  
Asphalt Research Consortium  
$350,000  Texas A & M Research Foundation  
Allen, David  Engineering Mechanics  

Layer Moduli of Nebraska Pavements for the New Mechanistic-Empirical Pavement Design Guide (MEPDG)  
$255,367  Nebraska Department of Roads  

$200,000 — $999,999
Knutson, Cody  
School of Natural Resources  
Development of a Drought Decision Support Portal for the Republican River Basin of Colorado, Nebraska & Kansas  
$223,524  
Svoboda, Mark  
School of Natural Resources  
Ryu, Jae  
School of Natural Resources  

Koelsch, Richard  
Biological Systems Engineering  
Heartland Integrated Water Quality Coordination Initiative  
$338,650  
Wortmann, Charles  
Agronomy and Horticulture  

Kostelnik, Marjorie  
Education and Human Sciences  
Osher Lifelong Learning Institute  
$450,000  
Eversoll, Deanna  
Education and Human Sciences  
Aguilar, Deanna  
Education and Human Sciences  

Krull, Dean  
Agronomy and Horticulture  
Managing Irrigation Systems Today & Tomorrow  
$621,816  
Benham, Brian  
Agronomy and Horticulture  
Ferguson, Richard  
Agronomy and Horticulture  

Lackey, Susan  
School of Natural Resources  
Eastern Nebraska Water Resources Assessment LPNRD  
$459,588  
Ayers, Jerry  
School of Natural Resources  
Hanson, Paul  
School of Natural Resources  
Joeckel, Robert  
School of Natural Resources  
Developing Hydrogeologic Databases to Assist in Water Resources Management — UENRD  
$459,600  

Ledder, Glenn  
Mathematics  
UBM: Research for Undergraduates in Theoretical Ecology (RUTE)  
$905,000  
Deng, Bo  
Mathematics  
Gibson, Robert  
Biological Sciences  
Loladze, Irakli  
Mathematics  
Louda, Svata  
Biological Sciences  

Lee, Kevin  
Physics and Astronomy  
ClassAction: Model Rapid-Feedback & Dynam Formative Assess System  
$359,768  
Schmidt, Edward  
Physics and Astronomy  

Lenters, John  
School of Natural Resources  
* Riparian Vegetation Impacts on Water Quantity, Quality, and Stream Ecology  
$433,960  
Istanbulluoglu, Erkan  
Geosciences  
Scott, Durelle  
Geosciences  


40  
$200,000 – $999,999
Lewis, Charlotte  Center on Children, Families and the Law
* Answers4Families/NRRS Database
$217,718  Nebraska Department of Health and Human Services

Li, Ming  Psychology
* Anxiolytic Property of Atypical Antipsychotics
$345,699  DHHS-NIH-NIMH

Lindquist, John  Agronomy and Horticulture
Contribution of Fusarium lateritium to Weed Suppressive Soils & Weed Abundance
$366,186  Department of Agriculture-NRICGP
Drijber, Rhae  Agronomy and Horticulture
Yuen, Gary  Plant Pathology

Liou, Sy-Hwang  Physics and Astronomy
* Advanced Probes for Characterizations of Magnetic Nanostructures
$539,998  DOD-DEPSCoR
Sellmyer, David  Center for Materials and Nanoscience
Skomski, Ralph  Physics and Astronomy

Liu, Mingsheng  Architectural Engineering
* CC Implementation of VA Medical Center at Omaha
$414,963  Omaha Public Power District

Lodl, Kathleen  4-H State Office
Health Rocks-Healthy Life Curricula Development
$250,700  National 4-H Council
Birnstihl, Elizabeth  Cooperative Extension
Fox, Marilyn  Southeast Research and Extension Center

Louda, Svata  Biological Sciences
Single vs. Multiple Insect Herbivore Guild Interactions in Canada Thistle Dynamics
$408,760  Department of Agriculture-NRICGP

$200,000 — $999,999
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<th>Faculty Name</th>
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<td>Lu, Yongfeng</td>
<td>Electrical Engineering</td>
<td>Coating and Patterning Diamond Films by Laser Resonant Bond Breaking in Polymer Precursors</td>
<td>NSF</td>
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<td>Laser-Assisted Fabrication of Large-Scale 3-D Photonic Bandgap Structures</td>
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<td>Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits</td>
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<td>Alexander, Dennis</td>
<td>Electrical Engineering</td>
<td>MRI: Development of Multifunctional Nanoscale Measurement System</td>
<td>NSF</td>
<td>$220,000</td>
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<td>Ducharme, Stephen</td>
<td>Physics and Astronomy</td>
<td>Tunable Photonic Bandgap Crystals with Integrated Functionalities</td>
<td>DOD-Air Force Office of Scientific Research</td>
<td>$330,000</td>
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<td>Near-Field-Controlled Nanoscale Coating of Functional Thin Films for Nanodevices</td>
<td>NSF</td>
<td>$240,000</td>
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<td>Mackenzie, Sally</td>
<td>Center for Plant Science Innovation</td>
<td>* Nuclear Mechanisms that Influence Mitochondrial Genome Stability</td>
<td>NSF</td>
<td>$450,000</td>
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<td>Nuclear-Organellar Interactions Involving AtMSH1 in Arabidopsis</td>
<td>Department of Energy</td>
<td>$650,000</td>
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<td>Training Graduate Students in Plant Breeding Using Crop Drought Tolerance Improvement as a Model</td>
<td>Department of Agriculture-NRICGP</td>
<td>$599,999</td>
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<td>Mamo, Martha</td>
<td>Agronomy and Horticulture</td>
<td>Pollution &amp; Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska</td>
<td>Department of Agriculture-CSREES</td>
<td>$335,000</td>
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<td>Helmers, Glenn</td>
<td>Agricultural Economics</td>
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<td>Martin, Derrel</td>
<td>Biological Systems Engineering</td>
<td>Modeling and Field Experimentation to Determine Effects of Land Terracing-Republican River Basin (CESU)</td>
<td>Department of Interior-BR</td>
<td>$477,267</td>
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<td>McQuillan, Julia</td>
<td>Sociology</td>
<td>Infertility: Pathways &amp; Psychosocial Outcomes</td>
<td>Pennsylvania State University</td>
<td>$637,373</td>
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Total: $200,000 – $999,999
Meagher, Michael  Chemical and Biomolecular Engineering
* Manufacture of a cGMP Lot of a Recombinant Next Generation PA Vaccine for Phase I Clinical Trial and Toxicity Testing
$428,325  Emergent Product Development, Gaithersburg Inc.
Swanson, Stephen  Chemical and Biomolecular Engineering
Van Cott, Kevin  Chemical and Biomolecular Engineering

Melvin, Steven  West Central Research and Extension Center
Irrigation Management with Limited Water: A Farm Education Program
$287,080  Department of Interior-BR
Martin, Derrel  Biological Systems Engineering
Corr, Alan  West Central Research and Extension Center
van Donk, Simon  West Central Research and Extension Center

Merchant, James  School of Natural Resources
* Initial Design and Implementation of the Nebraska Geospatial Data Sharing and Web Services Network
$260,870  Nebraska Office of the Chief Information Officer

Miller, Nancy  Textiles, Clothing and Design
Collaborative Research on Small Business Network Creation and Outcomes for Change and Innovation
$230,011  NSF

Mitra, Amit  Plant Pathology
Functional Map of Tomato Genome using Direct Repeat Induced Gene Silencing
$301,000  Department of Agriculture-NRICGP

Moore, Raymond  Engineering
* Students United in Classes, Community, Engineering, Service and Study Abroad
$591,995  NSF

Moriyama, Etsuko  Center for Plant Science Innovation;
Biological Sciences
Efficient and Sensitive Mining System for G-Protein Coupled Receptors
$577,014  DHHS-NIH-NLM
Large-Scale Simultaneous Multiple Alignment & Phylogeny Estimation
$223,215  NSF

Morris, T. Jack  Biological Sciences
The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection
$360,000  Department of Energy
Qu, Feng  Biological Sciences

Moxley, Rodney  Veterinary and Biomedical Sciences
Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli
$270,000  Department of Agriculture-NRICGP

$200,000 — $999,999
Nelson, J. Ron  Special Education and Communication Disorders
Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency
$694,884  Department of Education

Nickerson, H. Doak  Nebraska State Forest Service
Restoring the Pine Ridge Forest Ecosystem
$300,000  Nebraska Environmental Trust

Nguyen, Lim  Computer and Electronics Engineering
* Self-Encoded Spread Spectrum Modulation for Robust Anti-Jamming Communication
$379,767  DOD-DEPSCoR
Jang, Won  Computer and Electronics Engineering

Norton, Will  Journalism and Mass Communications
* Carnegie-Knight Initiative on the Future of Journalism Education
$250,000  Carnegie Corporation of New York

Noureddini, Hossein  Chemical and Biomolecular Engineering
Reduction of Phosphorus from Ethanol By-Product used as Livestock Feed
$210,781  Nebraska Corn Board

Oglesby, Robert  Geosciences
Evaluating the Role of Global Snow Cover on Seasonal to Interannual Predictability of Temperature & Precipitation
$598,216  NASA

Orti, Guillermo  Biological Sciences
RCN: DeepFin Will Advance the Phylogeny of “Fishes”
$500,000  NSF

Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny
$602,956  NSF
Li, Chenhong  Biological Sciences
Diamond, Judy  University of Nebraska State Museum

Osorio, Fernando  Veterinary and Biomedical Sciences
* Porcine Reproductive and Respiratory Virus: Role of Viral Genes in Virulence/Attenuation
$375,000  Department of Agriculture-NRICGP
Pattnaik, Asit  Veterinary and Biomedical Sciences

Pattnaik, Asit  Veterinary and Biomedical Sciences
VSV RNA Transcription and Replication
$996,128  DHHS-NIH-NIAID

Pegg, Mark  School of Natural Resources
* Sturgeon Management in the Platte River
$801,000  Nebraska Game and Parks Commission

$200,000 — $999,999
Perez, Lance  Electrical Engineering  
Self-Configuration & Localization in Ad Hoc Wireless Sensor Networks  
$548,807  
DOD-DEPSCoR

Goddard, Stephen  Computer Science and Engineering  
GAANN in Engineering & Assistive Technology  
$384,390  
Department of Education

Pilson, Diana  Biological Sciences  
Transgenic Virus Resistant Squash: Ecological Effect  
$314,877  
Department of Agriculture-CSREES

Platt, Stephen  Mechanical Engineering  
In Vivo Robotic Camera System for Laparoscopic Surgery  
$389,358  
DHHS-NIH-NIBIB

Pope, Kevin  School of Natural Resources  
Recruitment of Walleye and White Bass in Irrigation Reservoirs  
$484,448  
Nebraska Game and Parks Commission

Powell, Larkin  School of Natural Resources  
Assessing Local & Regional Variability in Productivity & Fidelity of Grassland Birds on National Park Service Units in the Great Plains  
$212,122  
Dept of Interior-GS

Rajca, Andrzej  Chemistry  
* High-Spin Nitroxide Diradical for Biomedical Imaging Applications  
$421,174  
DHHS-NIH-NIBIB

Rajurkar, Kamlakar  Industrial and Management Systems Engineering  
Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement  
$202,500  
NSF

Ratcliffe, Brett  University of Nebraska State Museum; Entomology  
Faunistic Survey of Dynastinae of Mexico, Guatemala, & Belize  
$481,493  
NSF
Redepenning, Jody  Center for Materials and Nanoscience
Chemically Modified Nano-Electrodes for Magnetoelectronics Applications

$390,000  NSF
Binek, Christian  Physics and Astronomy
Sokolov, Andrei  Physics and Astronomy

Reichenbach, Stephen  Computer Science and Engineering
SEI: Information Modeling for Comparative Visualizations & Analyses

$389,228  NSF

Reid, John  Mechanical Engineering
Midwest States Regional Pooled Fund Program

$590,000  Nebraska Department of Roads
Sicking, Dean  Midwest Roadside Safety
Faller, Ron  Midwest Roadside Safety

Reid, Robert  Special Education and Communication Disorders
Leadership Training in Attention Deficit Hyperactivity Disorder

$620,006  Department of Education

Rilett, Laurence  Civil Engineering
* Nebraska Transportation Center Seed Funding

$300,000  Nebraska Department of Roads
Development of State-of-the-Art Traffic Micro-Simulation Model for Nebraska

$222,896  Nebraska Department of Roads
Jones, Elizabeth  Civil Engineering
Intelligent Transportation System Deployment Project

$831,942  Nebraska Department of Roads
Jones, Elizabeth  Civil Engineering
Khattak, Aemal  Civil Engineering

Robertson, Brian  Center for Materials and Nanoscience
Spintronic Devices Enabled by Semiconducting Boron Carbide

$299,998  NSF
Adenwalla, Shireen  Center for Materials and Nanoscience
Dowben, Peter  Center for Materials and Nanoscience

Rothermel, Gregg  Computer Science and Engineering
CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques

$874,636  NSF
Elbaum, Sebastian  Computer Science and Engineering
Dwyer, Matthew  Computer Science and Engineering

ITR: Dependable End-User Software

$439,593  Oregon State University
Ryu, Jae  
School of Natural Resources
* Developing Seasonal Predictive Capability for Drought Mitigation Decision Support System
$311,000  
University of Illinois, Urbana-Champaign

Svoboda, Mark  
School of Natural Resources
Knutson, Cody  
School of Natural Resources
Sittler, Megan  
School of Natural Resources

Samal, Ashok  
Computer Science and Engineering
Building Knowledge Discovery & Information Fusion 
Tools for Collaborative Systems to Adaptively Manage Uncertain Hydrological Resources
$601,816  
NSF
Chen, Xun-Hong  
School of Natural Resources
Soh, Leen-Kiat  
Computer Science and Engineering
Tomkins, Alan  
Public Policy Center
Zellmer, Sandra  
College of Law

Saraf, Ravi  
Chemical and Biomolecular Engineering
* Nanodevice for Digital Imaging of Palpable Structure at Human-Finger Resolution for Clinical Breast Examination
$377,552  
DHHS-NIH-NIBIB

Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching
$332,156  
NSF

Schacht, Walter  
Agronomy and Horticulture
Grasslands Ecological Monitoring System
$608,880  
Department of Agriculture-RMA-FCIC

Scheel, Joan  
Food Science and Technology
Development, Coordination & Delivery of Information on Food Defense to Small & Medium Food Manufacturers
$291,123  
Department of Commerce-NIST

$200,000 — $999,999
Scheffler, Marilyn  Special Education and Communication Disorders
* Project RTI: Building Capacity Together to Implement Response to Intervention  
$800,000  Department of Education
Sanger, Dixie  Special Education and Communication Disorders

Project PROMOTE
$797,184  Department of Education
Sanger, Dixie  Special Education and Communication Disorders

Project Support: Speech-Language Pathologists Supporting Literacy Instruction
$800,000  Department of Education
Sanger, Dixie  Special Education and Communication Disorders

Project Re-entry: Preparing Speech-Language Pathologists to Serve Students with Traumatic Brain Injury  
$800,000  Department of Education
Hux, Karen  Special Education and Communication Disorders

Project NETS: Nebraska Educational Transition Specialists
$798,624  Department of Education

Sellmyer, David  Physics and Astronomy; Center for Materials and Nanoscience
Studies of Artificially Structured Composite Magnets  
$492,000  Department of Energy

Shadwick, Bradley  Physics and Astronomy
* Wavebreaking and Particle Trapping in Collisionless Plasmas  
$561,840  Department of Energy

Shank, Nancy  Public Policy Center
HIT Regional Health Records Implementation & Evaluation  
$402,186  Rural Nebraska Healthcare Network

Shapiro, Charles  Northeast Research and Extension Center
Improving Organic Farming Systems across Nebraska Agroecosystems  
$762,949  Department of Agriculture-CSREES
Baltenesperger, David  Panhandle Research and Extension Center
Brandle, James  School of Natural Resources
Francis, Charles  Agronomy and Horticulture
Knezevic, Stevan  Northeast Research and Extension Center
Wright, Robert  Entomology
Johnson, Ron  School of Natural Resources

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<td>School of Natural Resources</td>
<td>Targeting Watershed Vulnerability &amp; Behaviors Leading to Adoption of Conservation Management Practices</td>
<td>$570,000</td>
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<td>Sheridan, Susan</td>
<td>Center on Children, Youth, Families and Schools; Educational Psychology</td>
<td>* Consultation Based Interventions for Students with Social and Behavioral Concerns</td>
<td>$599,694</td>
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<td>Leadership Training in Interdisciplinary Collaboration</td>
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<td>Shield, Jeffrey</td>
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<td>* Novel Nanostructures for High-Energy Nanocomposite Permanent Magnets</td>
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<td>Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes</td>
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<td>Quantifying Risk Factors for Evolution of European Corn Borer Resistance to Cry1F Expressing Corn Hybrids</td>
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University of Nebraska State Museum  
Scarab Biodiversity of Southern South America  
$300,000  
NSF

Ocampo, Federico  
University of Nebraska State Museum

**Snow, Daniel**  
School of Natural Resources  
Effects of Cattle Manure Handling & Management  
Strategies on Fate & Transport of Hormones  
$699,607  
Environmental Protection Agency

Zhang, Tian  
Civil Engineering

Kranz, William  
Northeast Research and Extension Center

Mader, Terry  
Northeast Research and Extension Center

Shapiro, Charles  
Northeast Research and Extension Center

Shelton, David  
Northeast Research and Extension Center

**Snow, Gregory**  
Physics and Astronomy  
* The Luminosity Measurement for the DZERO Experiment at Fermilab  
$395,352  
Department of Energy-EPSCoR

Bloom, Kenneth  
Physics and Astronomy

Claes, Daniel  
Physics and Astronomy

Dominguez, Aaron  
Physics and Astronomy

**Soh, Leen-Kiat**  
Computer Science and Engineering  
iLOG: Embedding & Validating Empirical Usage Intelligence in Learning Objects  
$409,705  
NSF

Samal, Ashok  
Computer Science and Engineering

Nugent, Gwen  
Center on Children, Youth, Families and Schools

**Somerville, Greg**  
Veterinary and Biomedical Sciences  
Environmental Regulation of Staphylococcus epidermidis PIA Synthesis  
$361,679  
DHHS-NIH-NIGMS

**Soukup, Rodney**  
Electrical Engineering  
A Novel Variable Wide Bandgap Material for High Power, High Frequency Devices  
$368,008  
DOD-DEPSCoR

Hudgins, Jerry  
Electrical Engineering

Ianno, Natale  
Electrical Engineering

**Spalding, Roy**  
Agronomy and Horticulture  
Effectiveness of Irrigated Crop Management Practices in Reducing Groundwater Nitrate Contamination  
$630,768  
Department of Agriculture-CSREES

Ferguson, Richard  
Agronomy and Horticulture

Marx, David  
Statistics

Spaulding, Mary  
School of Natural Resources

**Spaulding, William**  
Psychology  
Decision Science in Rehabilitation  
$860,775  
DHHS-NIH-NIMH

Garbin, Calvin  
Psychology

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**$200,000 — $999,999**
Specht, James  Agronomy and Horticulture
Genetic Mapping & Application of SNP DNA Markers in Soybean  $389,391

Spreitzer, Robert  Biochemistry
Rubisco Phylogenetic Engineering  $202,383

Srisa-an, Witawas  Computer Science and Engineering
Building Scalable & Adaptive Garbage Collector for Server Systems  $281,000
Elbaum, Sebastian  Computer Science and Engineering
CSR-PDOS: Memory Efficient Garbage Collection Framework for Java Server Applications  $300,000

Stansbury, John  Civil Engineering
* Feasibility of Integrating Natural and Constructed Wetlands in Roadway Drainage System Design  $255,562
Moussavi, Massoum  Civil Engineering
Zhang, Tian  Civil Engineering

Staswick, Paul  Agronomy and Horticulture
* Deciphering Novel Signaling Roles for Amino Acid Conjugates of Jasmonic Acid  $249,969

Steadman, James  Plant Pathology
Resistance Improvement of Bean thru Multi-Site Screening & Pathogen Characterization  $204,650

Steffen, David  Veterinary and Biomedical Sciences
* Avian Influenza (AI) - High Path Surveillance  $224,052
Kelling, Clayton  Veterinary and Biomedical Sciences

Stenzt, Terry  Construction Management
Human Factors in Railway Operation  $344,575
Jones, Elizabeth  Civil Engineering
Rilett, Laurence  Civil Engineering
Khattak, Aemal  Civil Engineering
Riley, Michael  Industrial and Management Systems Engineering
Jones, Erick  Industrial and Management Systems Engineering

Analytic Study of Acute Extremity Lacerations in Meat Packing  $593,333

$200,000 – $999,999
Stockton, Matthew  West Central Research and Extension Center
Whole-Farm Economic Biological Stochastic Simulation Model of Small to Medium Cow-calf Firms with Research, Teaching and Extension Modules  $499,740  Department of Agriculture-NRICGP

Stone, Julie  Center for Plant Science Innovation; Biochemistry
Role of Transcriptional Regulator in Programmed Cell Death & Plant Development  $354,000  Department of Energy

Storz, Jay  Biological Sciences
Test of Adaptive Divergence across Altitudinal Gradients: Population Genomics of Deer Mice  $492,000  NSF

Stowell, Richard  Biological Systems Engineering
Air Quality Extension & Education: Enhanced Learning Opportunities for Addressing Air Quality Issues in Animal Agriculture  $498,562  Department of Agriculture-NRICGP

Stubbendieck, James  Great Plains Studies
Farm Viability, Farmland Preservation and Smart Growth  $308,000  Department of Agriculture-NRICGP

Subbiah, Jeyamkondan  Biological Systems Engineering; Food Science and Technology
* Improving the Safety of Prepared, But Not Ready-To-Eat Microwavable Foods through Heat Transfer and Pathogen Destruction Modeling  $599,985  Department of Agriculture-CSREES
Jones, David  Biological Systems Engineering
Thippareddi, Harshavardhan  Food Science and Technology

Subramanian, Anu  Chemical and Biomolecular Engineering
Biomimetic Nanofibrillar Scaffolds for Tissue Engineering  $390,720  DHHS-NIH-NIBIB

Svoboda, Mark  School of Natural Resources
* Development of a “Drought Ready Communities” Program  $288,670  Department of Commerce-NOAA
Sittler, Meghan  School of Natural Resources
Smith, Kelly  School of Natural Resources
Knutson, Cody  School of Natural Resources
Woudenber, Donna  School of Natural Resources

* Integrating Enhanced GRACE Water Storage Data into the U.S. and North American Drought Monitors  $224,991  NASA-Goddard Space Flight Center

Wardlow, Brian  School of Natural Resources
Fuchs, Brian  School of Natural Resources
Scott, Soren  School of Natural Resources
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<td>Computer Science and Engineering</td>
<td>MRI: Acquisition of Affordable Shared-Memory Computing &amp; Scalable Storage for Scientists &amp; Engineers</td>
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<td>Tadros, Maher</td>
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<td>Class C Fly Ash in Concrete Pavement</td>
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<td>Evaluation &amp; Repair Procedures for Precast/Prestressed Concrete Girders w/Longitudinal Cracking in the Web</td>
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<td>Chemistry</td>
<td>* Ligand Scaffold Optimization for Catalytic Asymmetric Hydroboration</td>
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<td>Tan, Li</td>
<td>Engineering Mechanics</td>
<td>* Self-Organized Nanolayers for Organic Thin-Film Transistors</td>
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<td>* Bi-Functional Pentacene Monolayer for Organic Field-Effect Transistors</td>
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<td>Allergenicity Evaluation of Isinglass</td>
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<td>HACCP Assistance for Small &amp; Very Small Processors with Development &amp; Validation of Safe Meat Chilling Processes</td>
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<td>Improving Safety of Shell Eggs &amp; Egg Products by Addressing Critical Research Needs for Salmonella Enteritidis &amp; Salmonella spp</td>
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Variyam, Vinod  Computer Science and Engineering  
Studies in Computational Complexity Theory  
$200,000  NSF

Velipasalar, Senem  Electrical Engineering  
* CSR-DMSS, SM: Cooperative Activity Analysis in Wireless Smart-Camera Networks (Wi-SCaNs)  
$300,000  NSF  
Gursoy, Mustafa  Electrical Engineering

Wagner, William  Biological Sciences  
* Effects of Predation by a Phonotactic Parasitoid on Male and Female Reproductive Behavior in a Field Cricket  
$499,414  NSF  
Communication of Direct Mating Benefits to Females  
$313,283  NSF

Waldren, Vernon  Southeast Research and Extension Center  
HUD Omaha Lead Site  
$300,000  Department of Housing and Urban Development

Waller, Steven  Agricultural Sciences and Natural Resources  
* Agriculture in the Classroom  
$236,742  Nebraska Foundation for Agricultural Awareness

Walstad, William  Economics  
Interactive Teaching in Undergraduate Economic Courses  
$674,928  NSF

Wang, Jun  Geosciences  
* Regional Air Quality and Climate Impact of Biomass-Burning Aerosols from Central America: An Analysis with EOS Data and Numerical Models  
$300,676  NASA

Weisz, Victoria  Center on Children, Families and the Law  
Nebraska State Court Improvement  
$236,714  Supreme Court of Nebraska

Weller, Curtis  Biological Systems Engineering  
Purification Process Influences on Structural & Nutritional Function of Grain Sorghum  
$338,000  Department of Agriculture-NRICGP  
Carr, Timothy  Nutrition and Health Sciences  
Schlegel, Vicki  Food Science and Technology  
Cuppelt, Susan  Food Science and Technology  
Hwang, Keum Taek  Industrial Ag Products Center  
Wang, Lijun  Biological Systems Engineering

Wiegand, Roger  Mathematics  
GAANN Fellowship Program: Mathematics at UNL  
$638,635  Department of Education  
Pitts, David  Mathematics  
Walker, Judy  Mathematics  
Walker, Mark  Mathematics  
Bellows, Laurie  Graduate Studies

$200,000 — $999,999
Wiener, Richard  Psychology  
REU Site: Psychology and Law  
$200,000  NSF  
Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice  
$233,883  NSF  
Self-referencing, Social Identity & Judgments of Sexual Harassment  
$302,364  NSF  

Wilson Jr., Robert  Panhandle Research and Extension Center  
Assessing the Long Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems  
$880,000  Monsanto Co.  

Woldt, Wayne  Biological Systems Engineering  
Advancing Onsite Wastewater Treatment in Nebraska  
$259,742  Nebraska Department of Environmental Quality  
Skipton, Sharon  Southeast Research and Extension Center  

Wood, Charles  Biological Sciences  
AIDS and Cancer Specimen Bank  
$383,601  George Washington University  
Research and Training on HIV/AIDS Neuropathogenesis in Zambia  
$273,363  DHHS-NIH-NIMH  
Vaccination against Mucosal HIV Clade C Transmission  
$506,753  Dana-Farber Cancer Institute  

Woodward, Gordon  Mathematics  
Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at UNL  
$400,000  NSF  
Ballard, John  Engineering  
Ramamurthy, Byrav  Computer Science and Engineering  
Goddard, Steve  Computer Science and Engineering  
Lee, Kevin  Arts & Sciences  

Nebraska REU in Applied Mathematics  
$251,823  NSF  
Rebarber, Richard  Mathematics  

Wortmann, Charles  Agronomy and Horticulture  
Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest  
$235,839  Nebraska Corn Board  
Erickson, Galen  Animal Science  
Schulte, Dennis  Biological Systems Engineering  
Franti, Tom  Biological Systems Engineering  
Jose, H. Douglas  Agricultural Economics
Yang, Yiqi  
**Textiles, Clothing and Design**  
Resistance of Sulfur Dyed Fabrics to Oxidative 
Bleaching & Acidic Tendering: Improvement & Application  
$300,618  
Procter & Gamble

Yoder, Ronald  
**Biological Systems Engineering**  
* Enhancing the Value of Water through Management Education  
$225,000  
Nebraska Department of Natural Resources

Nebraska AgrAbility  
$800,000  
Department of Agriculture-CSREES  
Baquet, Alan  
Agricultural Economics

Yohe, John  
**IANR-International Programs**  
Transfer of Sorghum & Millet Production, 
Processing & Marketing Technologies Program in Mali  
$750,000  
U.S. Agency for International Development

Zempleni, Janos  
**Nutrition and Health Sciences**  
Biotin Affects Cytokine Metabolism  
$409,586  
Department of Agriculture-NRICGP  
Epigenetic Effects of Biotin on Activation of 
Endogenous Viral Sequences  
$395,601  
DHHS-NIH-NIEHS

Zeng, Xiao Cheng  
**Chemistry**  
ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
$715,121  
NSF  
Diestler, Dennis  
Agronomy and Horticulture  
Feng, Ruqiang  
Engineering Mechanics

Zera, Anthony  
**Biological Sciences**  
Enzymatic and Molecular Bases of Trade-Offs in 
Lipid Metabolism that Underlie Life History Trade-Off  
$435,682  
NSF  
Harshman, Lawrence  
Biological Sciences

Zhang, Luwen  
**Center for Virology**  
Interferon Regulatory Factor 7 and NPC  
$393,855  
DHHS-NIH-NIAID

Zlotnik, Vitaly  
**Geosciences**  
Mechanisms Producing Variation in Lake Salinity in 
Dune Environments: Nebraska Sand Hills  
$219,958  
NSF  
Fritz, Sherilyn  
Geosciences  
Swinehart, James  
School of Natural Resources
## Early Career Awards

**Active awards in 2008**

* Indicates new in 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Description</th>
<th>Award Amount</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binek, Christian</td>
<td>Physics and Astronomy</td>
<td>Education &amp; Research on Nanoscale Spintronic Systems &amp; Heterostructures</td>
<td>$500,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Bloom, Kenneth</td>
<td>Physics and Astronomy</td>
<td>Top-Quark Physics, Computing &amp; Software at Large Hadron Collider</td>
<td>$550,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Choueiry, Berthe</td>
<td>Computer Science and Engineering</td>
<td>Detecting Interchangeability Relations in Constraint Satisfaction Problems and Exploiting them in Problem Solving and Interactions with Users</td>
<td>$600,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Cohen, Myra</td>
<td>Computer Science and Engineering</td>
<td>* Configuration-Aware Testing Through Intelligent Sampling to Improve Software Dependability</td>
<td>$400,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Dominguez, Aaron</td>
<td>Physics and Astronomy</td>
<td>Superior Silicon Tracking &amp; Discovery as CMS &amp; D0</td>
<td>$550,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Elbaum, Sebastian</td>
<td>Computer Science and Engineering</td>
<td>Leveraging Field Data to Test Pervasive Systems</td>
<td>$412,594</td>
<td>NSF</td>
</tr>
<tr>
<td>Name</td>
<td>Department</td>
<td>Project Description</td>
<td>Award Amount</td>
<td>Funding Agency</td>
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<tr>
<td>Enders, Axel</td>
<td>Physics and Astronomy</td>
<td>* Self-Assembled Magnetic Nanostructures</td>
<td>$400,000</td>
<td>NSF</td>
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<tr>
<td>Frank, Tracy</td>
<td>Geosciences</td>
<td>Exploring the Geologic Record of Major Climate Transitions: Causes, Consequences, &amp; Impacts on the Evolution of Earth Systems</td>
<td>$583,816</td>
<td>NSF</td>
</tr>
<tr>
<td>Gursoy, Mustafa</td>
<td>Electrical Engineering</td>
<td>CAREER: Energy-Efficient Wireless Communications under Channel Uncertainty</td>
<td>$400,000</td>
<td>NSF</td>
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<tr>
<td>Hebets, Eileen</td>
<td>Biological Sciences</td>
<td>Evolution and Function of Complex Signaling in Wolf Spider Genus Schizocosa</td>
<td>$680,351</td>
<td>NSF</td>
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<tr>
<td>Kim, Yong Rak</td>
<td>Civil Engineering</td>
<td>Research &amp; Education on Advanced Multiscale Modeling-Analysis of Roadway Materials, Mixtures, &amp; Infrastructure Systems</td>
<td>$402,044</td>
<td>NSF</td>
</tr>
<tr>
<td>Wang, Lily</td>
<td>Architectural Engineering</td>
<td>Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations</td>
<td>$406,376</td>
<td>NSF</td>
</tr>
<tr>
<td>Xu, Lisong</td>
<td>Computer Science and Engineering</td>
<td>Stochastic TCP Friendliness: Exploring the Design Space of TCP-Friendly Traffic Control in Best-Effort Internet</td>
<td>$400,000</td>
<td>NSF</td>
</tr>
</tbody>
</table>
K Awards

National Institutes of Health K Awards provide support for intensive development experiences in one of the biomedical, behavioral or clinical sciences leading to research independence. Candidates for these awards normally must have a research or health-professional doctorate and postdoctoral research experience at the time of application. The proposed career-development experience must be in a research area new to the applicant and/or one in which an additional supervised research experience will substantially add to the applicant’s research capabilities. Candidates must provide a plan for achieving independent research support by the end of the award, and must be willing to spend a minimum of .75 FTE conducting research and career development during the award three-, four-, or five-year project period.

Angeletti, Peter
Biological Sciences
Maintenance of Human Papilloma Virus Genes
$613,512 DHHS-NIH-NCI

DiLillo, David
Psychology
Family Functioning of Adults Maltreated as Children
$670,286 DHHS-NIH-NIMH

Peterson, Daniel
Food Science and Technology
* Adaptive Immune Response to Symbiotic Bacteria as a Mediator of Gut Homeostasis
$379,890 DHHS-NIH-NIAID

Sayood, Khalid
Electrical Engineering
Identification of Biological Materials of Unknown Origin
$764,005 DHHS-NIH-NIAID

Tyler, Kimberly
Sociology
Neglect and Abuse Histories Among Homeless Young Adults
$659,525 DHHS-NIH-NIMH
Young Investigator Research Program (YIP)

The Department of Defense-Air Force Office of Scientific Research bestows its Young Investigator Research Program (YIP) award on scientists and engineers at research institutions across the United States who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research. The objective of the program is to foster creative basic research in science and engineering, enhance early career development of outstanding young investigators and increase opportunities for the young investigators to recognize the Air Force mission and the related challenges in science and engineering. Those selected receive the grants over a three-year period.

Cohen, Myra
Computer Science and Engineering
$316,551
DOD-Air Force Office of Scientific Research
Mark Awakuni-Swetland, assistant professor of anthropology, and colleagues are creating a comprehensive Omaha and Ponca digital dictionary that will be available online for native communities, students, researchers and the public. The National Endowment for the Humanities funds this work through a joint NEH-National Science Foundation-Smithsonian Institution “Documenting Endangered Languages” initiative. It’s also a “We the People” project, a special NEH recognition for model projects advancing the study, teaching and understanding of American history and culture. This project will provide extensive information on the Omaha and Ponca language and will be far more robust and usable than existing resources.

The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry project, an initiative of Ted Kooser, the 2004-2006 Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and online publications featuring a poem written by a contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the UNL English Department, where the project office is located.
Ken Price, professor of English and Hillegass chair of 19th Century American Literature, is principal investigator for a $500,000 We the People Challenge Grant from the National Endowment for the Humanities. The award is contingent on UNL acquiring a 3-1 match of $1.5 million in the next four years. When fundraising is completed, the $2 million establishes an endowment at the University of Nebraska Foundation, the proceeds of which provide permanent annual operating funding for the Walt Whitman Archive. The Whitman Archive is an electronic research and teaching tool that makes Whitman’s huge body of work easily and conveniently accessible. Whitman amassed a huge volume of work during his life. Some 70,000 manuscripts are housed in about 80 locations, although the bulk is known to be in just five libraries. But the logistics of finding these various documents, let alone assessing and comparing their relevance and content, are daunting. The Archive allows scholars to search the entire body of Whitman’s writings and scholarship on those works and offers scholarly analysis.

* Walt Whitman’s Civil War Writings
$300,000 National Endowment for the Humanities
07/01/08 – 06/30/11

* Walt Whitman’s Civil War Writings
$80,000 American Council of Learned Societies
07/01/08 – 12/31/09

* Walt Whitman and the Civil War
$75,000 National Historical Publications and Records Commission
10/01/08 – 09/30/09

With grants from the National Endowment for the Humanities, the American Council of Learned Societies and the National Historical Publications and Records Commission, the Walt Whitman Archive will create a comprehensive edition of the Civil War writings of Walt Whitman. The War profoundly shaped Leaves of Grass, the first masterpiece of American poetry, and Whitman extensively depicted and analyzed the Civil War in journals, notebooks, letters, essays, journals, memoirs and manuscript drafts. The hundreds of documents that give voice to Whitman’s experience of the war will be electronically edited, arranged and published. In addition to making these documents freely available, this work will help to model for other scholars best practices in creating, publishing and sustaining electronic editions. The project will provide scholars and students—of the Civil War, of Whitman and of American history in general—a site where they can read, evaluate and experience a set of texts that provide unique insight into the American experience of the Civil War.
Walter, Katherine

Interoperability of Metadata Standards for Digital Thematic Research Collections

$169,651  Institute of Museum and Library Services
11/1/05 – 4/30/08
Price, Kenneth  English
Bolin, Mary  Libraries
Barney, Brett  Libraries

Katherine Walter, chair of special collections and preservation and professor of libraries, is principal investigator on a team hoping to develop guidelines that will serve as a model for the integration of standards used by scholarly digital projects and could influence future development. Metadata integration is an important but yet unattained goal for digital thematic research collections, which employ standards for transcriptions, digital images, finding aids and administrative records. These standards have been developed by different communities. The Metadata Encoding and Transmission Standard (METS) shows promise as a means of integrating various standards, but no testing of METS has been done using digital thematic research as a model; thus ad hoc and idiosyncratic solutions have sprung up, with various unreliable results. UNL will create a METS profile to test its reliability and also submit the package to two digital library systems at Brown University and the University of Virginia.

National Digital Newspaper Program: Nebraska

$271,016  National Endowment for the Humanities
7/1/07 – 6/30/09
Wunder, John  Journalism and Mass Communications
Mering, Margaret  Center for Digital Research in the Humanities
Pytlik Zillig, Brian  Center for Digital Research in the Humanities

Walter, who co-directs UNL’s Center for Digital Research in the Humanities, leads the Nebraska Digital Newspapers Project, through which about 100,000 pages of Nebraska newspapers from 1880 through 1910 will be digitized for inclusion in the Library of Congress’ national “Chronicling America” Web site. UNL’s University Libraries is partnering with the College of Journalism and Mass Communications and the Nebraska State Historical Society on the two-year, “We the People” grant. Nebraska is one of nine states selected in the early phases of this project, which eventually will include all 50 states. “We the People” grants recognize model projects that advance the study, teaching and understanding of American history and culture.
## Arts and Humanities Awards

### $5,000-$49,999

*Indicates new in 2008*

<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Project Description</th>
<th>Funding Institution</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td><strong>Bleed, Peter</strong></td>
<td>Anthropology and Geography</td>
<td>Archaeological Investigation of the Battle of El Viso, July 1, 1898</td>
<td>National Geographic Society</td>
<td>$30,220</td>
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<tr>
<td><strong>Engen-Wedin, Nancy</strong></td>
<td>Lied Center for Performing Arts</td>
<td>* Nebraska’s Rural Arts Education Initiative</td>
<td>National Endowment for the Arts</td>
<td>$25,000</td>
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<td>ArtsReach</td>
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<td></td>
<td>Nebraskans for the Arts</td>
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<td>$50,000</td>
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<td></td>
<td>Umo‘ho’ Cultural Arts Program</td>
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<td>$23,250</td>
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<td><strong>Handa, Rumiko</strong></td>
<td>Architecture</td>
<td>Spirit of Design: Multidisciplinary, Multimedia Database and Website</td>
<td>Graham Foundation</td>
<td>$12,000</td>
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<td>Potter, James</td>
<td>Architecture</td>
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<td><strong>Hanson, Marin</strong></td>
<td>Textiles, Clothing and Design</td>
<td>International Quilt Study Center New Building Opening Exhibition</td>
<td>Cooper Foundation</td>
<td>$21,274</td>
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<td>Ducey, Carolyn</td>
<td>International Quilt Study Center &amp; Museum</td>
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<tr>
<td><strong>Jewell, Andrew</strong></td>
<td>Center for Digital Research in the Humanities</td>
<td>* The Crowded Page</td>
<td>National Endowment for the Humanities</td>
<td>$49,577</td>
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<td></td>
<td></td>
<td>Mapping a Writer’s World: A Geographic Chronology of Willa Cather’s Life</td>
<td>Nebraska Humanities Council</td>
<td>$7,800</td>
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<td><strong>Kendall, Laura</strong></td>
<td>Lied Center for Performing Arts</td>
<td>* Loop Divers by Troika Ranch</td>
<td>Woods Charitable Fund/ Lincoln Community Foundation</td>
<td>$35,000</td>
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<tr>
<td><strong>Lundine, Heather</strong></td>
<td>University Press</td>
<td>* Literary Publishing at the University of Nebraska Press</td>
<td>National Endowment for the Arts</td>
<td>$20,000</td>
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<td></td>
<td></td>
<td>Access to Artistic Excellence: International Translations</td>
<td>National Endowment for the Arts</td>
<td>$25,000</td>
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<td><strong>Price, Kenneth</strong></td>
<td>English</td>
<td>Walt Whitman Archive</td>
<td>Cooper Foundation</td>
<td>$14,000</td>
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</table>
Richmond, John  
School of Music  
*2009 Honors Jazz Weekend & Summer Camp 
$10,000  
Haar, Ora  
School of Music  

Stubbendieck, James  
Great Plains Studies  
* Celebrating Darwin’s Legacy 
$8,960  

Walter, Katherine  
University Libraries  
Quilt Index National Leadership Project 
$20,000  

Crews, Patricia  
Textiles, Clothing and Design 
Hillestad Textiles Gallery 
$9,000  

Weiss, Wendy  
Textiles, Clothing and Design  
Friends of the Hillestad Textiles Gallery 
$20,000
Divya Jaroni, Veterinary and Biomedical Sciences; Mindy Brashears
Title: Lactic Acid Bacteria Cultures that Inhibit Food-Borne Pathogens
Date: 1/29/2008
Number: 7,323,166
Country: United States of America

Stephen Robert Platt, Mechanical Engineering; Shane Farritor, Mechanical Engineering; Dmitry Oleynikov; Adnan Hadzialic
Title: Surgical Camera Robot
Date: 3/4/2008
Number: 7,339,341
Country: United States of America

Bernard Dou din, Physics & Astronomy; Christian Binek, Physics & Astronomy
Title: Magnetic Spin Valve With a Magnetoelectric Element
Date: 4/15/2008
Number: 7,358,846
Country: United States of America

Raul Barletta, Veterinary and Biomedical Sciences; Ofelia Barletta-Chacon, Veterinary and Biomedical Sciences
Title: Recombinant Mycobacteria Overexpressing D-alanine Ligase Gene and Uses Therefore
Date: 5/13/2008
Number: 7,371,571
Country: United States of America

Alan Christensen, Biological Sciences; Douglas Dorer
Title: Nucleic Acid Sequences Found in Drosophila Melanogaster That Encode Proteins Essential for Viability and Method of Use
Date: 6/10/2008
Number: 7,384,745
Country: United States of America

Jody Redepenning, Chemistry
Title: Electrolytic Deposition of Coatings for Prosthetic Metals and Alloys
Date: 6/17/2008
Number: 7,387,846
Country: United States of America
Richard Arnold, Engineering Research Centers; Shane Farritor, Mechanical Engineering; Chris Norman
Title: Method and Apparatus for Noncontact Relative Rail Displacement, Track Modulus and Stiffness Measurement by a Moving Rail Vehicle
Date: 7/22/2008
Number: 7,403,296
Country: United States of America

Dean Sicking, Civil Engineering; Jim C. Holloway, Midwest Roadside Safety Program; John D. Reid, Mechanical Engineering; John R. Rohde, Civil Engineering; Karla Polivka, Midwest Roadside Safety Program; Robert W. Bielenberg, Midwest Roadside Safety Program; Ronald Faller, Midwest Roadside Safety Program; Eric Keller; Kenneth Addink
Title: High-Impact, Energy-Absorbing Vehicle Barrier System
Date: 8/12/2008
Number: 7,410,320 B2
Country: United States of America
George Graef, Agronomy and Horticulture; Leslie Korte, Agronomy and Horticulture; Dennis White, Agronomy and Horticulture
Technology: Soybean variety NE3001
Two licensees: Grain Place Foods, Inc.; Hendrick Seeds

Shane Farritor, Mechanical Engineering; Dmitry Oleynikov
Technology: Devices for surgical applications
Licensee: Virtual Incision Corp.

J. Ron Nelson, Educational Psychology
Technology: Online vocabulary: Progress monitoring assessment
Licensee: Cambium Learning, Inc.

Vadim Gladyshev, Biochemistry
Technology: A system for efficient expression of selenoproteins in mammalian cells
Licensee: R&D Systems, Inc.

Maher Tadros, Civil Engineering
Technology: Pre-cast post-tensioned segmental concrete pole system
Licensee: Superior Concrete Products

Milford Hanna, Biological Systems Engineering; Robert Weber, Industrial Ag Products Center
Technology: Bio-based polymer and method for making the same (packing peanuts made mostly of starch with physical properties superior to all starch peanuts)
Licensee: StarchTech, Inc.

Stefan Newbold, Facilities Management; Lalit Agarwal, Facilities Management; Jim Hines, Facilities Management; and others
Technology: Campus energy management & control system
Licensee: DTL Controls, LLC

Donald Rundquist, School of Natural Resources; Bryan Leavitt, School of Natural Resources
Technology: CALMIT (Center for Advanced Land Management Information Technologies) data acquisition program software for hyperspectral, photographic and DPS data collection and management
Licensee: South Dakota State University
Subramaniam Srikumaran, Veterinary & Biomedical Sciences; Martha Gentry-Nielsen
Technology: Hybridoma cell lines for the production of antibodies against \textit{P. haemolytica} A1 leukotoxin
Licensee: Boehringer Ingelheim Vetmedica, P. (BIVI)

Peter Stephen Baenziger, Agronomy and Horticulture
Technology: Wheat variety NE01643
Three licensees: North Dakota Crop Improvement and Seed Association (NDCISA, dba Dakota Select Seed); Albert Lea Seed House; James Stewart II
CREATIVE WORKS IN FINE AND PERFORMING ARTS
Faculty who created, performed or produced creative works in fine and performing arts, nationally or internationally

Scott Anderson School of Music
Soloist, trombone, Johan De Meij’s T-Bone Concerto, Twin Ports Wind Orchestra, University of Minnesota-Duluth, Duluth, MN

John Bailey School of Music
Soloist, piccolo and piano, Chutzpah! Florida Flute Fair, Orlando, FL
Conductor and featured soloist (with Christian Bohnenstengel), Venezuelan National Flute Choir, South American flute orchestra concert tour, Caracas, Venezuela
Conductor, International Flute Orchestra (35 professional flutists from around the U.S. and Canada), South American flute orchestra concert tour, Valparaiso, Concepción and Santiago, Chile
Conductor, High Winds Flute Orchestra (150 flutists) opening concert; International Flute Orchestra showcase concert, National Flute Association’s annual national convention, Kansas City, MO

Carolyn Barber School of Music
Conductor, Dorian Festival Honor Band, Luther College, Decorah, IA
Conductor, Maryland Music Educators Association Junior All-State Band, Baltimore, MD
Conductor, with U.S. Air Force Heartland of America Band, Percy Grainger’s The Merry King, 2008 College Band Directors National Association Conference

Paul Barnes School of Music
Artist in residence, 2008 Oxbridge International C.S. Lewis Conference, Oxford and Cambridge, England

Peter Bouffard School of Music
Director of jazz and featured performer, University of Maine Summer Youth Music Camp, Orono, ME

Kate Butler School of Music
Artist in residence, 2008 Oxbridge International C.S. Lewis Conference, Oxford and Cambridge, England
Alto soloist, Honegger’s King David, Tulsa Oratorio Chorus and Orchestra, Tulsa, OK
Soloist, Music for a Summer Afternoon, Redlands, CA

Mark Clinton School of Music
Featured artist, piano, Seattle International Piano Festival and Competition, Seattle, WA

Chris Ford Architecture
Artist, residential architecture, TAIFEN, H&R Block Artspace Exhibit: “The Design Flatfile,” Kansas City, MO
Dana Fritz
Art and Art History
Artist, photography, *The Culture of Nature*, Kansas City Artists Coalition, Kansas City, MO

Therees Hibbard
School of Music
Workshop leader and guest conductor, St. Olaf Choir, Chapel Choir and Viking Chorus, St. Olaf College, Northfield, MN
Conductor, presenter and workshop leader, Conference on Worship, Theology and the Arts, St. Olaf College, Northfield, MN

Michael James
Textiles, Clothing and Design
Artist, wall quilts, *The Life in a Day: New Work*, Modern Arts Midwest, Lincoln, NE
Artist, *Structure, Surface and Expression: Quilt Directions Today*, Southeastern Center for Contemporary Art, Winston-Salem, NC
Artist, *Interference Effect: (Betrayed) Lover’s Knot #2*, Craft in America touring exhibit, Little Rock, AR; Portland, OR; San Diego, CA; Houston, TX; Bloomfield Hills, MI; Oklahoma City, OK; Brockton, MA

Karen Kunc
Art and Art History
Artist, prints, *Visualizing the Urban/Rural Divide*, Malaspina Print Gallery, Vancouver, British Columbia, Canada

Christopher Marks
School of Music
Featured recitalist, organ, 2008 National Convention of the Organ Historical Society, Seattle, WA

Jeffrey McCray
School of Music
Performer, bassoon, Samuel Adler’s *Canto XII for solo bassoon*, 2008 Conference of the International Double Reed Society, Brigham Young University, Provo, UT

William McMullen
School of Music
Recitalist (accompanied by Donna Harler-Smith, UNL School of Music, Charles (Chip) Smith and pianist Christopher Koelzer), oboe, Randall Snyder’s *Lag Obo (Song of the Oboe)* with poetry by Goenawan Mohamad; Paul Reade’s *Aspects of a Landscape* with poetry by Rosemary Bergstrom; and Benjamin Britten’s *Two Insect Pieces* with poetry by Abraham Cowley and Daryl Hine, 2008 Conference of the International Double Reed, Brigham Young University, Provo, UT

Eric Richards
School of Music
Composer, premiere, *Fantasia on Kang Ding Love Song*, Shanghai Conservatory of Music Jazz Orchestra, Shanghai, China
Composer, *Three Scenes for American Trombone and Brass Orchestra*, Holland Center for the Performing Arts, Omaha, NE
Francisco Souto  
**Artist and Art History**  
Artist, prints on paper, 7th Kochi International Triennial of Prints, Ino-Cho Paper Museum, Kochi, Japan
Artist, prints on paper, 2008 New York International Print Fair, The Park Avenue Armory, New York City, New York
Artist, prints on paper, *Subject(s) to Change: American Art from the Permanent Collection*, Sheldon Museum of Art, Lincoln, NE

Sandra Williams  
**Artist and Art History**  
Artist, mixed media, *30 Years of Clay*, Borelli Edwards Gallery, Pittsburgh, PA

The Moran Woodwind Quintet  
**School of Music**  
Jeffrey McCray, bassoon  
Diane Barger, clarinet  
John Bailey, flute  
Alan Mattingly, horn  
William McMullen, oboe  
Performers, University of Kansas at Lawrence, William Jewell College, the University of Missouri-Columbia and Washburn University, Topeka

UNL Faculty Brass Quintet  
**School of Music**  
Darryl White and Craig Bircher, trumpets  
Alan Mattingly, horn  
Scott Anderson, trombone  
Craig Fuller, tuba  
Guest artists, Season opener, Black Hills Chamber Music Society, Rapid City, SD  
Performers, International Brass Chamber Music Festival, University of Louisville, Louisville, KY  
Performers, University of Missouri-Kansas City Conservatory of Music, Washburn University and Kansas State University
Douglas A. Abbott  
**Child, Youth and Family Studies**

Katherine S. Ankerson  
**Architecture**

Mark J. Awakuni-Sweetland  
**Anthropology; Institute for Ethnic Studies**
Author. *Dance Lodges of the Omaha People*. Lincoln, NE: University of Nebraska Press.

Stephen C. Behrendt  
**English**

Susan Belasco  
**English**

Mark Bernards  
**Agronomy and Horticulture**
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John E. Bernthal  
**Special Education and Communication Disorders**

David R. Beukelman  
**Special Education and Communication Disorders**
Co-author, with Dr. Pat Mirenda. *Augmentative and Alternative Communication* (Korean Translation). Seoul, Korea: Hakjisa Publisher.

Brian H. Bornstein  
**Psychology**
Thomas Borstelmann  History

C. Stephen Bradford  College of Law

Dawn O. Braithwaite  Communication Studies

David O. Carter  Entomology
Co-editor, with Mark Tibbett. Soil Analysis in Forensic Taphonomy: Chemical and Biological Effects of Buried Human Remains. Boca Raton, FL: CRC Press.

Brent Cejda  Educational Administration

Enrique Martínez Celaya  Art and Art History
Author. Nomad. Lincoln, NE: University of Nebraska Press.

John Comer  Political Science

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John W. Creswell  Educational Psychology

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Christopher R. Fielding
Geosciences
Co-editor, with Tracy D. Frank, Geosciences; John Isbell. Resolving the Late Paleozoic Ice Age in Time and Space. Boulder, CO: The Geological Society of America, Inc.

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Co-author, with Hugh H. Genoways, University of Nebraska State Museum; Justin D. Hoffman, School of Natural Resources; Keith Geluso; Russell A. Benedict; Jeffrey J. Huebschman. Mammals of Nebraska: Checklist, Key, and Bibliography. Lincoln, NE: University of Nebraska State Museum.

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Co-author with D. Gosmire. DIAL’s Interactive Learning Campus: Connecting, Learning and Sharing. Platte, SD: Mid-Central Coop and Lincoln, NE: University of Nebraska–Lincoln.

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Editor. *The Unknown Blakelock*. Lincoln, NE: University of Nebraska Press.

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Co-editor, with Wendy J. Katz, Art History. Regionalism and the Humanities. Lincoln, NE: University of Nebraska Press.

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Editor and contributor. The ‘Woman Question’ and Higher Education: Perspectives on Gender and Knowledge Production in America. Cheltenham, UK: Edward Elgar.

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Editor. The Man with the Strange Head and Other Early Science Fiction Stories by Miles J. Breuer. Lincoln, NE: University of Nebraska Press.

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Mathias M. Schubert  
Electrical Engineering  
Editor, with Uwe Beck; Hans Arwin. *4th International Conference on Spectroscopic Ellipsometry*. Berlin, Germany: Wiley.
Alan T. Seagren  Educational Administration

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Author, with Mathew L. Brust; Douglas C. Backlund; Scott Weins. Tiger Beetles of South Dakota and Nebraska. Lincoln, NE: University of Nebraska-Lincoln Entomology.

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Entrepreneurship in Nebraska: Conditions, Attitudes, and Actions. 

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Entrepreneurship Investigation ESI: Leader’s Guide; Unit 1: Discover the E-Scene;  
Unit 2: The Case of Me; Unit 3: Your Business Inspection.  
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Series editor.  
Studies in Space Law Series: Lotta Viikari, The  
Environmental Element in Space Law.  

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Fun to Play, Ready to Learn.  
Lincoln, NE: University of Nebraska–Lincoln.

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Entrepreneurship in Nebraska: Condition, Attitudes, and Actions.  

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Time in Archaeology.  
Salt Lake City, UT: University of Utah Press.

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Fun to Play, Ready to Learn.  
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Daniel W. Wheeler  
Agricultural Leadership, Education and Communication

Richard L. Wiener  
Psychology; College of Law
Co-editor, with Brian H. Bornstein, Psychology; Robert F. Schopp, College of Law; Steven L. Willborn, College of Law. Civil Juries and Civil Justice: Psychological and Legal Perspectives. New York, NY: Springer.

Steven L. Willborn  
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Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska—Lincoln.

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Entomology
Co-author, with Mathew L. Brust; W.W. Hoback. The Grasshoppers (Orthoptera: Acrididae and Romaleidae) of Nebraska. Lincoln, NE: UNL Extension.
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Janos Zempleni  Nutrition and Health Sciences
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Honors/Institutions</th>
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<tbody>
<tr>
<td>Brian Larkins</td>
<td>Office of Research; Agronomy and Horticulture</td>
<td>National Academy of Science membership</td>
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<tr>
<td>William Splinter</td>
<td>Larsen Tractor Test and Power Museum;</td>
<td>Biological Systems Engineering, Emeritus National Academy of Engineers</td>
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<tr>
<td>James Van Etten</td>
<td>Plant Pathology</td>
<td>National Academy of Science</td>
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<tr>
<td>Elton Aberle</td>
<td>Animal Science</td>
<td>Fellow, American Meat Science Association R.C. Pollock Award, American Meat Science Association</td>
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<tr>
<td>Viacheslav Adamchuk</td>
<td>Biological Systems Engineering</td>
<td>Pierre C. Robert Precision Agriculture Young Scientist Award, Ninth International Conference on Precision Agriculture</td>
</tr>
<tr>
<td>David Allen</td>
<td>Engineering</td>
<td>Michael P. Malone International Leadership Award, National Association of State Universities and Land-Grant Colleges</td>
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<td></td>
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<td>International TTH Pian Medal, International Congress of Computational Engineering Sciences</td>
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<td>Jane Armstrong</td>
<td>Northeast Research and Extension Center</td>
<td>National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation</td>
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<tr>
<td>Diane Barger</td>
<td>School of Music</td>
<td>Treasurer, International Clarinet Association</td>
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<tr>
<td>Herman Batelaan</td>
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<tr>
<td>Frederick Baxendale</td>
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</tr>
<tr>
<td>Kirill Belashchenko</td>
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</tr>
<tr>
<td>David Berkowitz</td>
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</tbody>
</table>
Bruce W. Brodersen  Veterinary and Biomedical Sciences  Outstanding Service Award, Nebraska Veterinary Medical Association

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Amy Burnett  History  Gerald Strauss Book Prize for *Teaching the Reformation: Ministers and Their Message in Basel, 1529-1629* (Oxford University Press, 2007), Sixteenth Century Society & Conference

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Hamid Sharif  Computer and Electronics Engineering
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David R. Smith  Veterinary and Biomedical Sciences
Wendall Burgher Beef Industry Award, University of Nebraska Foundation

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Brian Wilcox  Center on Children, Families and the Law; Psychology
Public Service Award, Society for Prevention Research

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Glossary of Federal Agency Abbreviations

USAID United States Agency for International Development
CNS Corporation for National Service
USDA United States Department of Agriculture
ARS Agricultural Research Service
BRDC Biotechnology Research and Development Corporation
CSREES Cooperative State Research, Education & Extension Service
ERS Extension Research Service
FAS Foreign Agriculture Service
FS Forestry Service
NRCS Natural Resources Conservation Service
NRICGP National Research Initiative Competitive Grant Program
RMA Risk Management Agency
SARE Sustainable Agricultural Research and Education Program

DOC Department of Commerce
EDA Economic Development Administration
NOAA National Oceanic & Atmospheric Administration

DOD Department of Defense
ARO Army Research Office
DEPSCoR Defense Experimental Program to Stimulate Cooperative Research
ONR Office of Naval Research

DEd Department of Education
FIPSE Fund for the Improvement of Postsecondary Education
GAANN Graduate Assistance in Areas of National Need

DOE Department of Energy
EPSCoR Experimental Program to Stimulate Cooperative Research
NIGEC National Institute for Global Environmental Change
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>DHHS</td>
<td>Department of Health and Human Services</td>
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<tr>
<td>ACF</td>
<td>Administration for Children and Families</td>
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<tr>
<td>CDC</td>
<td>Centers for Disease Control</td>
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<tr>
<td>NIH</td>
<td>National Institutes of Health</td>
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<tr>
<td>FIC</td>
<td>Fogarty International Center</td>
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<tr>
<td>NCI</td>
<td>National Cancer Institute</td>
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<tr>
<td>NCRR</td>
<td>National Center for Research Resources</td>
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<td>NEI</td>
<td>National Eye Institute</td>
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<td>NHLBI</td>
<td>National Heart, Lung and Blood Institute</td>
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<td>NIA</td>
<td>National Institute on Aging</td>
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<tr>
<td>NIAID</td>
<td>National Institute on Allergy &amp; Infectious Diseases</td>
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<tr>
<td>NICHD</td>
<td>National Institute of Child Health and Human Development</td>
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<td>NIDCD</td>
<td>National Institute on Deafness &amp; Communication Disorders</td>
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<tr>
<td>NIDDK</td>
<td>National Institute of Diabetes, Digestive &amp; Kidney Disease</td>
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<td>NIDA</td>
<td>National Institute on Drug Abuse</td>
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<td>NIGMS</td>
<td>National Institute on General Medical Sciences</td>
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<td>NIMH</td>
<td>National Institute of Mental Health</td>
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<td>HUD</td>
<td>Department of Housing and Urban Development</td>
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<td>DoI</td>
<td>Department of Interior</td>
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<td>BR</td>
<td>Bureau of Reclamation</td>
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<tr>
<td>FWS</td>
<td>Fish &amp; Wildlife Service</td>
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<td>GS</td>
<td>Geological Survey</td>
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<td>NPS</td>
<td>National Park Service</td>
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<td>DoT</td>
<td>Department of Transportation</td>
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<td>FRA</td>
<td>Federal Railroad Administration</td>
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<td>EPA</td>
<td>Environmental Protection Agency</td>
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<td>IMLS</td>
<td>Institute of Museum &amp; Library Services</td>
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<tr>
<td>NASA</td>
<td>National Aeronautics and Space Administration</td>
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<tr>
<td>NCHRP</td>
<td>National Cooperative Highway Research Program</td>
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<tr>
<td>NEA</td>
<td>National Endowment for the Arts</td>
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<tr>
<td>NEH</td>
<td>National Endowment for the Humanities</td>
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<tr>
<td>NSF</td>
<td>National Science Foundation</td>
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