This is the sixth 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 2007. 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.

Researchers at the University of Nebraska–Lincoln have pushed the frontiers in their disciplines in the past year, setting new drilling records in Antarctica, winning the nation’s highest honor for technology and building an ultra-fast, high-intensity laser that has the highest combination of peak power and repetition rate of any U.S. laser. Our sponsored funding continues to grow, with awards of $171.9 million last year alone.

How have we reached 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 and support of research at the University of Nebraska–Lincoln!

Prem S. Paul
Vice Chancellor for Research and Economic Development
AWARDS OF $3 MILLION OR MORE
Active awards in 2007
* Indicates new in 2007

**Allen, David**

**Engineering**

**Blast Wave Absorbing Structures: an Experimental & Modeling Program**

$7,500,000 DOD-Army Research Laboratory
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 Nebraska Public Power District
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.
Cotton, Dan
National E – Extension Project
$6,800,000
10/1/04 - 12/31/09

Dan Cotton directs the eXtension Initiative, an Internet-based land-grant university education and information system. UNL is the lead institution in this multi-year project, which partners with the University of Kentucky and North Carolina State 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.

Epstein, Michael
Special Education and Communication Disorders
$4,498,231
10/1/01 – 9/30/07

Michael Epstein, William Barkley professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communication disorders, have established the Center for Behavior and Reading in the Center for At-Risk Children’s Services to focus on implementing and evaluating reading and behavior intervention programs for school-aged children. The aim of their research is to assess the overall and intervention-specific effects of various programs on school, staff, child and family levels. The project is funded by the U.S. Department of Education and involves seven participating schools in Lincoln’s public school system.

Fromm, Michael
Center for Biotechnology
A Protein Interaction Database for Rice Protein Kinases
$6,057,747
9/1/02 – 12/31/07

Michael Fromm, director of the Center for Biotechnology and a professor of agronomy and horticulture in the Institute of Agriculture and Natural Resources, is the Plant Genome Research Center’s principal investigator. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from six universities. Research at the center focuses on protein kinases of plants, in particular those of cereal crops. Protein kinases are enzymes that affect the way plants react to their environments. Manipulating kinases could provide a means of regulating the tolerance of plants to disease and environmental stresses, such as drought and temperature extremes.
Metabolite Signaling Center

$4,057,419
2/1/04 - 1/31/07

Metabolite Signaling Center scientists examine the influence of dietary molecules on human biology. They study the molecular response to metabolites using primarily genomic technologies to better understand the influence of chemicals in food on human and animal growth and development, an emerging area of critical importance for Nebraska’s economy. One goal of the research is development of agricultural products with value-added compositional changes that have beneficial effects on human health. It is among the first centers in the country to focus on effects of plant metabolites on gene expression and development in the consuming organism. Researchers use genomics technologies such as microarrays, genome sequences, cell-based bioassays and whole animal physiological studies.

Gladyshev, Vadim
Biochemistry

$10,889,947
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.
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, Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.
Jose, H. Douglas
North Central Risk Management Education Center
Agricultural Economics
$3,600,000
Dept. of Agriculture-CSREES
9/15/07 – 9/14/10

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
Math in the Middle Institute Partnership
Mathematics
$5,000,000
Math in the Middle Institute Partnership
Ruth Heaton
Teaching, Learning and Teacher Education
Thomas McGowan
Teaching, Learning and Teacher Education
Barbara Jacobson
Lincoln Public Schools
8/1/04 – 7/31/09

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 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.
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, Michael Chemical and Biomolecular Engineering Process Research & Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin $10,627,000 DOD-Army Medical Research 3/1/02 – 2/28/09

Michael Meagher, 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.

Fast-Track Production of a Heptavalent Botulinum Vaccine $6,799,173 DynPort Vaccine Company 9/1/03 – 2/28/08

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.

Laurence Rilett Civil Engineering Region 7 University Transportation Center
$6,225,000 Department of Transportation—Research and Innovative Technology Administration 10/1/06 – 9/30/11

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 centers 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**  
Parent Engagement and Learning Birth to Five  
$5,077,441  
DHHS-NIH-NICHD  
9/26/03 – 7/31/08

Susan M. Sheridan, Willa Cather professor of educational psychology, and co-investigator Carolyn Edwards, Willa Cather professor of psychology and family and consumer sciences, 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 and Nanoscience**  
Materials Research Science & Engineering Center; Nanomagnetic Structures  
$5,491,000  
9/1/02 – 8/31/08

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.
Velander, William  Chemical and Biomolecular Engineering

**cGMP Recombinant FIX and Oral Hemophilia B Therapy**

$9,625,045 DHHS-NIH-NHLBI

Meagher, Michael  Chemical and Biomolecular Engineering
Van Cott, Kevin  Chemical and Biomolecular Engineering

9/6/05 – 8/31/10

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 Fibrin Sealant of Hemostatic Dressing

$5,398,990 DOD-Army Medical Research

Meagher, Michael  Chemical and Biomolecular Engineering
Van Cott, Kevin  Chemical and Biomolecular Engineering
Inan, Mehmet  Chemical and Biomolecular Engineering

8/1/05 – 10/31/08

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.
Les Whitbeck, professor of sociology, is coordinating two major projects. The National Institute of Mental Health is funding a five-year project to identify precursors of mental disorders and to evaluate cultural risks and protective factors among a population of pre-teen Native children in the Upper Midwest area. A second project, funded by the National Institute on Drug Abuse, is a five-year project to investigate risk and resilience for early onset substance use and abuse among pre-teen Native children in the same region.

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.
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 2007
* Indicates new in 2007

Adams, Stephanie Industrial and Management Systems Engineering
Strengthening Transitions into Engineering Program
$1,648,354 NSF
Ballard, John Engineering
Perez, Lance Electrical Engineering

Alfano, James Plant Science Initiative/Plant Pathology
Suppression of Innate Immunity by ADP Ribosyltransferase Type III Effectors
$1,815,504 DHHS-NIH-NIAID

Barycki, Joseph Biochemistry
Structural Insights into Redox Homeostasis
$1,067,922 DHHS-NIH-NIGMS

Becker, Donald Biochemistry
Mechanistic Studies of Functional Switching in the PutA Flavoprotein
$1,218,025 DHHS-NIH-NIGMS

Bellows, Laurie Graduate Studies
McNair Scholars Project and the University of Nebraska–Lincoln
$1,125,000 Dept. of Education

Chen, Bing Computer and Electronics Engineering
SPIRIT^2.0 Silicon Prairie Initiative for Robotics in IT
$2,999,963 NSF

Cotton, Dan Cooperative Extension
New Technologies for Ag Extension (eXtension)
$1,425,600 Department of Agriculture-CSREES

Cupp, Andrea Animal Science
* Role of VEGF in Testis Morphogenesis
$1,083,239 DHHS-NIH-NICHD
Weber, John Animal Science
White, Brett Animal Science

DeKraai, Mark Public Policy Center
Child Mental Health SIG
$1,629,313 Nebraska Dept. Health and Human Services

Diamond, Judy University of Nebraska State Museum
Explore Evolution
$2,851,409 NSF
* World of Viruses
$1,286,811 DHHS-NIH-NCRR
Wood, Charles Nebraska Center for Virology
Doll, Elizabeth  
Evolving Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools  
$1,261,684  
Bruning, Roger  
Bonnstetter, Ron  
Horn, Christy  
Dept. of Education  
Educational Psychology  
Teaching, Learning and Teacher Education  
Educational Psychology  

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

Eccarius, Malinda  
Special Education and Communication Disorders  
Mountain-Prairie Upgrade Partnership  
$1,155,054  
Zeng, Xiao Cheng  
Feng, Ruqiang  
Turner, Joseph  
Poser, Susan  
Tomkins, Alan  
Dept. of Education  
Chemistry  
Engineering Mechanics  
Engineering Mechanics  
Center for the Teaching and Study of Applied Ethics  
Public Policy Center  

Epstein, Michael  
Special Education and Communication Disorders  
On the Way Home: A Family-Centered Academic Reintegration Intervention Model  
$1,443,284  
Torkelson-Trout, Alexandra  
Dept. of Education  
Special Education and Communication Disorder  

Espy, Kimberly  
Office of Research  
Prenatal Tobacco Exposure: Perinatal and Genetic Risks  
$1,207,660  
Wiebe, Sandra  
DHHS-NIH-NIDA  
Office of Research  

Executive Function Development in Preschool Children  
$1,168,281  
Wiebe, Sandra  
DHHS-NIH-NIMH  
Office of Research  

Faller, Ronald  
Civil Engineering  
Evaluation & Field Installation of Steel Tube & Foam Energy Reduction (SAFER) Barrier  
$1,045,913  
Holloway, Jim  
Reid, John  
Rohde, John  
Sicking, Dean  
Indianapolis Racing League  
Civil Engineering  
Mechanical Engineering  
Civil Engineering  
Civil Engineering  

$1 MILLION — $2,999,999
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<td>Chemical and Biomolecular Engineering</td>
<td>Process Research and Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin</td>
<td>DOD-Army Space and Missile Defense Command</td>
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<td>Food Science and Technology</td>
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<td>Chemical and Biomolecular Engineering</td>
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<td>Purification of proPRT-201 and Production of Reference Standard</td>
<td>Proteon Therapeutics</td>
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<td>Process Development &amp; cGMP Production</td>
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<td>Targepeutics Inc.</td>
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$1 MILLION — $2,999,999
Mendoza-Gorham, Joan  
Student Affairs  
$1,250,000  
Classic Upward Bound  
Dept. of Education  

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

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

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

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

Sheridan, Susan  
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  
Dept. of Education  

Simpson, Melanie  
Biochemistry  
Role of Hyaluronan Matrix in Prostate Cancer Progression  
$1,074,629  
DHHS-NIH-National Cancer Institute  

Snow, Greg  
Physics and Astronomy  
The Cosmic Ray Observatory Project  
$1,374,005  
NSF  

Starace, Anthony  
Physics and Astronomy  
Dynamics of Few-Body Atomic Processes  
$1,106,337  
Dept. of Energy  

Umstadter, Donald  
Physics and Astronomy  
Research & Development of a High-Power-Laser-Driven Electron Accelerator Suitable for Applications  
$2,596,020  
DOD-Air Force Office of Scientific Research  

Glover, Todd  
Center on Children, Youth, Families and Schools  

Simpson, Melanie  
Biochemistry  
Role of Hyaluronan Matrix in Prostate Cancer Progression  
$1,074,629  
DHHS-NIH-National Cancer Institute  

Snow, Greg  
Physics and Astronomy  
The Cosmic Ray Observatory Project  
$1,374,005  
NSF  

Starace, Anthony  
Physics and Astronomy  
Dynamics of Few-Body Atomic Processes  
$1,106,337  
Dept. of Energy  

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  
High-Energy Laser for Detection, Inspection, & Non-Destructive Testing  
$2,596,020  
DOD-Air Force Office of Scientific Research  

Tunable, Monoenergetic Gamma-Ray Source for Identification of Embedded SNM  
$1,829,596  
Dept. of Homeland Security-DNDO
Van Etten, James  
DNA Replication & Gene Expression of Chlorella Viruses  
$1,215,694  
DHHS-NIH-NIGMS  
Plant Pathology  
Kang, Ming  
Plant Pathology  
Zhang, Yuanzheng  
Plant Pathology  
Agarkova, Irina  
Plant Pathology  
Gurnon, James  
Plant Pathology

Verma, Shashi  
Great Plains Regional Center for Global Environmental Change  
$2,214,769  
Dept. of Energy/NIGEC  
Plant Pathology  
Dunigan, David  
Plant Pathology  
Kang, Ming  
Plant Pathology  
Zhang, Yuanzheng  
Plant Pathology  
Agarkova, Irina  
Plant Pathology  
Gurnon, James  
Plant Pathology

Verma, Shashi  
Great Plains Regional Center for Global Environmental Change  
$2,214,769  
Dept. of Energy/NIGEC  
Plant Pathology  
Dunigan, David  
Plant Pathology  
Kang, Ming  
Plant Pathology  
Zhang, Yuanzheng  
Plant Pathology  
Agarkova, Irina  
Plant Pathology  
Gurnon, James  
Plant Pathology

Viljoen, Hendrik  
A Rational Design of a Platform for de novo Gene Synthesis  
$1,335,080  
DHHS-NIH-NCRR  
Chemical and Biomolecular Engineering  
Subramanian, Anu  
Chemical and Biomolecular Engineering

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

Wedin, David  
Sand Hills Biocomplexity: Integrating Biogeophysical Processes Across Space and Time  
$1,794,730  
NSF  
Geosciences  
Loope, David  
Geosciences

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

Whitbeck, Les  
Great Plains Cultural Ways Mental Health Careers Program  
$1,298,171  
DHHS-NIH-NIMH  
Sociology  
Moore, Helen  
Sociology

White, Lynn  
Infertility: Pathways & Psychosocial Outcomes  
$2,559,414  
DHHS-NIH-NICHD  
Sociology  
McQuillan, Julia  
Sociology
<table>
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<tr>
<th>Name</th>
<th>Department</th>
<th>Project Title</th>
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<td>Wilcke, William</td>
<td>IANR-Research</td>
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<td>Midwest Child Care Research Consortium</td>
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<td>Torquati, Julia</td>
<td>Family and Consumer Sciences</td>
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<td>Wilhite, Donald</td>
<td>School of Natural Resources</td>
<td>Rangeland and Forage Geospatial Decision Support System for Drought Risk Management</td>
<td>Dept. of Agriculture-RMA</td>
<td>$1,023,038</td>
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<td>Wood, Charles</td>
<td>Biological Sciences</td>
<td>Programs in HIV &amp; AIDS Assoc Diseases/Malignancies</td>
<td>DHHS-NIH-Fogarty International Center</td>
<td>$2,130,669</td>
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<td>Evolution of Clade C HIV-1 in Infected Children</td>
<td>DHHS-NIH-NICHD</td>
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<td>Research Training in Comparative Viral Pathogenesis</td>
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<td>Zempleni, Janos</td>
<td>Nutrition and Health Sciences</td>
<td>Vitamin-Dependent Modifications of Histones</td>
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<td>Zhang, Luwen</td>
<td>Center for Virology</td>
<td>Oncogenic Properties of Interferon Regulatory Factor 7</td>
<td>DHHS-NIH-National Cancer Institute</td>
<td>$1,126,847</td>
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Awards of $200,000 - $999,999

Active awards in 2007
* Indicates new in 2007

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

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

Alfano, James  
Plant Science Initiative/Plant Pathology  
Secretion Signals & Type III Chaperones in Pseudomonas Syringae Type III Secretion System  
$430,000  
NSF

* Dissecting the Function of HrpJ & HrpK – Two Type III Secreted Proteins Required for Injection of Effectors into Plant Cells  
$398,500  
Dept. 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 Mechanics  
U.S.-Brazil Dual-Degree in Infrastructure & Sustainability Engineering Program  
$208,211  
Dept. of Education-FIPSE

Inter-University Program for Human Resources Training in Computational Mechanics  
$203,904  
Dept. of Education-FIPSE

* EMME: US-EU Transatlantic Degree Program in Engineering Mechanics/Materials Engineering  
$407,997  
Dept. of Education

Chandra, Namas  
Engineering

Negahban, Mehrdad  
Engineering Mechanics

Anderson, Mark  
Geosciences  
Atmospheric Conditions Associated with Sea Ice Characteristics over Arctic Ocean during Melt Season  
$208,699  
NASA

Asard, Han  
Biochemistry  
Physiological Functions & Biochemical Properties of Plant Cytochromes b561  
$386,084  
NSF
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<th>Project Description</th>
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<td>Atkin, Audrey</td>
<td>Biological Sciences</td>
<td>Wild-Type PPR1 mRNA Decay by Yeast Nonsense-Mediated mRNA Decay Pathway</td>
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<td>Moriyama, Etsuko</td>
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<td>Homology &amp; Cohomology over Commutative Rings</td>
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<td>ATX1, Epigenetic Regulator of Plant Development</td>
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<td>Simple for Dead-Continuous for Live Load System with Partial Pre-Fabricated Deck System</td>
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<td>Steel Box System Monitoring of N-2 over I-480 Bridge</td>
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<td>* Folded Plate Technology: Research, Design &amp; Monitoring</td>
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<td>* Development of Field Data for Effective Implementation of Mechanistic-Empirical Pavement Design Procedure</td>
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<td>Engineering Mechanics</td>
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Baenziger, P. Stephen  Agronomy and Horticulture
Developing Winter Wheat with Improved Fusarium Head Blight Tolerance by Conventional and Transgenic Approaches
$306,981  Dept. 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  Dept. of Agriculture-NRICGP
Eskridge, Kent  Statistics
Dweikat, Ismail  Agronomy and Horticulture

* Developing Small Grains Cultivars Optimally Suited for Organic Production
$755,937  Dept. 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  Dept. of Energy
Hoffman, Michael  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  NSF
Adamchuk, Viacheslav  Center on Children, Youth, Families and Schools/Biological Systems Engineering

Basolo, Alexandra  Biological Sciences
Behavioral Plasticity in Preexisting Receiver Bias
$372,000  NSF

Effects of Sexual Selection & Predation on a Genetic Polymorphism for Body Size
$519,721  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  
$414,430  
DHHS-National Institute on Aging

Benson, Andrew  
Food Science and Technology  
Functional Consequences of Genome Evolution in Listeria Monocytogenes  
$261,515  
Dept. of Agriculture-NRICGP

Berkowitz, David  
Chemistry  
New Approaches to Catalyst Screening & Development  
$423,000  
NSF

Beukelman, David  
Special Education and Communication Disorders  
Rehabilitation Engineering Research Center on Communication Enhancement  
$534,990  
Duke University Medical Center

Bevins, Rick  
Psychology  
Acquired Appettitive Properties of Nicotine  
$884,792  
DHHS-NIH-NIDA

Bilder, Christopher  
Statistics  
* Disease Detection and Prevalence Estimation through Informative Group Testing  
$722,666  
DHHS-NIH-NIAID

Billesbach, David  
Biological Systems Engineering  
Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System  
$517,045  
Dept. of Energy-Berkeley National Lab

Blum, Paul  
Biological Sciences  
Gene Silencing & Catabolite Repression in the Archaeon Sulfolobus Solfataricus  
$413,380  
NSF

Bobaru, Florin  
Engineering Mechanics  
Adaptivity in Peridynamics for Composite Plates  
$203,965  
Dept. of Energy–Sandia National Laboratories

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

Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems  
$461,000  
Kamil, Alan  
NSF

$200,000 — $999,999
Brand, Jennifer
Center for Materials and Nanoscience
Boron Carbide Semiconductor Films
Dept. of Energy-Battelle
$347,826

Novel Rare-Earth Semiconductors for Solid-State Neutron Detectors
DOD-Defense Threat Reduction Agency
Belashchenko, Kirill
Physics and Astronomy
Dowben, Peter
Physics and Astronomy
$450,000

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

Bulling, Denise
Public Policy Center
Hospital Preparedness — Bioterrorism
$257,500
Nebraska Dept. of Health and Human Services

* Critical Incidence Stress Management Program Coordination
$222,120
Nebraska Dept. 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
Dept. of Agriculture-RMA
Ramamurthy, Byrav
Computer Science and Engineering

Burson, Dennis
Animal Science
Listeria Monocytogenes Controls in Ready to Eat Meat Products
$599,732
Dept. of Agriculture-CSREES
Thippareddi, Harshavardhan
Food Science and Technology

Cady, Daniel
Cooperative Extension
Nebraska Technology Transfer Center at UNL
$430,860
Nebraska Dept. of Roads

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

Cantrell, Randolph
Center for Applied Rural Innovation
Relocation to the Buffalo Commons: Marketing Approach to Understand Residential Decisions among Migrants
$220,387
Dept. of Agriculture-NRICGP
Burkhart-Kriesel, Cheryl
Panhandle Research and Extension Center
Johnson, Bruce
Agricultural Economics

Carr, Timothy
Nutrition and Health Sciences
Method for Enhancing the Cholesterol-Lowering Property of Plant Sterol & Stanol Esters
$500,000
Beef Products Inc.

* Regulation of Cholesterol Absorption by Plant Sterol & Stanol Esters
$466,915
Dept. 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
Irmao, 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/Plant Science Initiative
Histone Modifications & Transcriptional Silencing in Chlamydomonas
$448,235
NSF

RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas
$969,539
DHHS-NIH-NIGMS

Claes, Daniel
Physics and Astronomy
Experimental High Energy Physics
$573,000
NSF
Snow, Gregory
Physics and Astronomy

Clemente, Thomas
Biotechnology/Plant Science Initiative/Agronomy and Horticulture
From Proplastid to Chloroplast: Understanding Plastid Differentiation in Maize by Microarray & Proteome Analysis
$389,225
Cornell University

Research in Nebraska on Improved Soybean Oil for Biodiesel Fuel
$491,000
Dept. of Energy

Functional Analysis of Soybean Genes through Transposon Mutagenesis
$586,600
United Soybean Board/Smith/Bucklin

Specht, James
Agronomy and Horticulture

* Enhancing Disease Resistance in Soybean through Biotechnology
$303,000
North Central Soybean Research Program

Alfano, James
Plant Science Initiative/Plant Pathology
Morris, T. Jack
Biological Sciences

Comfort, Steven
School of Natural Resources
Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water
$994,100
Environmental Protection Agency

Costello, Don
Computer Science and Engineering
GAANN Fellowships for Computer Science & Engineering
$500,000
Dept. of Education

$200,000 — $999,999
Daly, Edward  Educational Psychology  School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change  $800,000  Dept. of Education
McCurdy, Merilee  Educational Psychology  Sheridan, Susan  Educational Psychology  Kunz, Gina  Educational Psychology

DiMagno, Stephen  Chemistry  Hydrogen for Fuel Cells  $966,000  DOD-Office of Naval Research
Takacs, James  Chemistry  Berkowitz, David  Chemistry
* Anhydrous Fluoride Salts  $420,000  NSF

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  $406,500  University of Kansas Center for Research
Bloom, Kenneth  Physics and Astronomy

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

Drijber, Rhae  Agronomy and Horticulture  * Developing Technologies to Improve Soil & Nutrient Management  $211,000  Dept. of Agriculture-ARS

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

Ducharme, Stephen  Center for Materials and Nanoscience/Physics and Astronomy  Nanostructure-Designed Dielectric Material for High-Energy-Density Capacitors  $586,000  DOD-DEPSCoR
Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications  $240,000  NSF
Dwyer, Matthew  Computer Science and Engineering
Program Analysis Techniques to Support Dependent 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

Elbaum, Sebastian  Computer Science and Engineering
Goddard, Stephen  Computer Science and Engineering

*CSR-EHS Predictable Adaptive Residual Monitoring for Real-time Embedded Systems
$500,000  NSF

Dzenis, Yuris  Engineering Mechanics
Fundamentals of Fabrication of Nanofiber Assemblies by Electrospinning
$372,000  NSF
Farritor, Shane  Mechanical Engineering

Next Generation Super Carbon Fiber
$317,127  Hexcel Corporation

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

Eccarius, Malinda  Special Education and Communication Disorders
Mountain Prairie Upgrade Partnership - Early Childhood
$781,642  Dept. of Education

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

$200,000 – $999,999
Epstein, Michael  
Special Education and Communication and Disorders  
Leadership Training in Emotional Disturbance Disorders  
$590,854  Dept. of Education  

Randomized Clinical Trial of Wraparounds Services for Elementary School Students in School Settings  
$538,266  Dept. of Education  

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  
Development of a New Precast Concrete Bridge Railing System (2006-2008)  
$229,820  Nebraska Dept. of Roads  
Bielenberg, Robert  
Reid, John  
Tadros, Mahra  
Civil Engineering  

* Development of an Economical Guardrail System for Use on Gabion Walls  
$250,000  Dept. of Transportation-FHWA  
Sicking, Dean  
Rohde, John  
Reid, John  
Midwest Roadside Safety  
Mechanical Engineering  

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  
$327,630  South Dakota Dept. of Education  
Geisinger, Kurt  
Educational Psychology  

Franco, Juan  
Vice Chancellor for Student Affairs  
NU Directions: Program to Reduce High-Risk Drinking  
$468,000  Robert Wood Johnson Foundation  
Major, Linda  
Student Affairs  

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  
$484,647  NSF  
Jimenez-Ruiz, Francisco  
University of Nebraska State Museum
Gay, Timothy  
* Polarized Electron and Photon Physics  
$370,000  
NSF

Gibson, Robert  
GAANN  
Fellowship for Ecology, Evolution & Behavior at UNL  
$625,000  
Dept. of Education

Gitelson, Anatoly  
Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins  
$597,799  
NASA

Glover, Todd  
Center on Children, Youth, Families and Schools  
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation  
$309,500  
Nebraska Dept. of Education

Daly, Edward  
Center on Children, Youth, Families and Schools/Educational Psychology  

McCurdy, Merilee  
Center on Children, Youth, Families and Schools/Educational Psychology  

Gitelson, Anatoly  
School of Natural Resources  
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NASA

Glover, Todd  
Center on Children, Youth, Families and Schools  
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation  
$309,500  
Nebraska Dept. of Education

Daly, Edward  
Center on Children, Youth, Families and Schools/Educational Psychology  

McCurdy, Merilee  
Center on Children, Youth, Families and Schools/Educational Psychology  

Godbold, 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  
Rebuilding New Orleans  
$293,660  
Dept. 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

Chen, LingYun  
Food Science and Technology  

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  

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<td>Molecular Evolution of Genes Expressed in D. melanogaster Sperm Storage Structures</td>
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<td>* Genome Biology of Innate Immunity: Genetic Dissection of Drosophila melanogaster Responses to Bacillus Infection</td>
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**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

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  
Dept. of Agriculture-RMA-FCIC  
Burgener, Paul  
Lyon, Drew  
Martin, Derrel  
Pavlista, Alexander  
Supalla, Raymond  
Urrea Florez, Carlos  
Yonts, C. Dean  

Heusel, Gary  
**Student Involvement**  
Midwest Consortium for Service-Learning in Higher Education  
$939,806  
Corporation for National Service

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  

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 Dept. of Environmental Quality  
Barrow, Tadd  
Hoagland, Kyle  
Holz, Aris
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Jiang, Hong  Computer Science and Engineering  
SAM*2 Toolkit: Scalable & Adaptive Metadata Management for High-End Computing  
$602,326  NSF  
Wang, Jun  Computer Science and Engineering  

Jones, Clinton  Veterinary and Biomedical Sciences  
Functional Analysis of biCPO  
$349,500  Dept. of Agriculture-NRICGP  
Zhang, Yange  Veterinary and Biomedical Sciences  
Functional Analysis of Proteins Encoded by the Bovine Herpesvirus 1 Latency Related Gene  
$374,475  Dept. of Agriculture-CSREES  
* Does HSV-1 Latency Associated Transcript (LAT) Encode a Protein?  
$405,625  DHHS-NIH-NIAID  

Jones, Elizabeth  Civil Engineering  
ITS Resource, Research & Educational Activities at Peter Kiewit Institute  
$921,414  Nebraska Dept. of Roads  

Jones, Erick  Industrial and Management Systems Engineering  
Center for Engineering Logistics and Distribution at UNL  
$256,000  NSF  

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

Josiah, Scott  Nebraska State Forest Service  
Community Enhancement Program  
$350,000  Nebraska Dept. of Roads  

Kelling, Clayton  Veterinary and Biomedical Sciences  
Role of Nonstructural Proteins in Pestivirus Virion Assembly  
$289,116  DHHS-NIH-NIAID  

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

Keown, Jeff  Animal Science  
Trilateral Curriculum Modification & Rural Community Information Delivery  
$209,157  Dept. of Education-FIPSE
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Lee, Kevin  Physics and Astronomy
ClassAction: Model Rapid-Feedback &
Dynam Formative Assess System
$359,768  NSF
Schmidt, Edward  Physics and Astronomy
Development of Interactive Simulation Environments
for Inquiry Astronomy Teaching
$336,572  NSF
Leslie-Pelecky, Diandra  Physics and Astronomy
Magnetic Properties of Disordered Rare-Earth Nanostructures
$420,000  NSF
Shield, Jeff  Mechanical Engineering
Magnetic Cluster States in Nanostructured Materials
$450,000  Dept. of Energy-EPSCoR
Lindquist, John  Agronomy and Horticulture
Contribution of Fusarium lateritium to Weed
Suppressive Soils & Weed Abundance
$366,186  Dept. of Agriculture-NRICGP
Drijber, Rhae  Agronomy and Horticulture
Yuen, Gary  Plant Pathology
Liou, Sy-Hwang  Physics and Astronomy
Nanometer-Size Magnetic Devices
$236,000  DOD-DEPSCoR
Liu, Mingsheng  Architectural Engineering
CC at Mutual of Omaha - Phase III
$210,319  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  Dept. of Agriculture-NRICGP
Insect Herbivore Guild Interactions &
Tall Thistle Population Dynamics
$369,999  NSF
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Modeling and Field Experimentation to Determine Effects of Land Terracing-Republican River Basin (CESU)
$468,667  Dept. of Interior-BR
Food & Agricultural Sciences National Needs Graduate Fellowship Grants Program
$276,000  Dept. of Agriculture-CSREES

McNulty, Lawrence  Educational Administration
* Eurasia/South Asia TEA Program 2007
$379,187  International Research and Exchanges

McQuillan, Julia  Sociology
Infertility: Pathways & Psychosocial Outcomes
$426,907  Pennsylvania State University

Meagher, Michael  Chemical and Biomolecular Engineering
Optimization of Phytase Production in Pichia Pastoris
$372,874  Syngenta
Inan, Mehmet  Chemical and Biomolecular Engineering

Melvin, Steven  West Central Research and Extension Center
* Irrigation Management with Limited Water: A Farm Education Program
$287,080  Dept. 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

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
Efficient Gene Silencing by Intrinsic Direct Repeats: Mechanism & Utilization
$390,000  NSF
* Functional Map of Tomato Genome using Direct Repeat Induced Gene Silencing
$301,000  Dept. of Agriculture-NRICGP

Moriyama, Etsuko  Plant Science Initiative/Biological Sciences
* Efficient and Sensitive Mining System for G-Protein Coupled Receptors
$591,300  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  Dept. of Energy
Qu, Feng  Biological Sciences

$200,000 — $999,999
Moxley, Rodney  Veterinary and Biomedical Sciences
Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli
$270,000  Dept. of Agriculture-NRICGP

Nelson, J. Ron  Special Education and Communication Disorders
*Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency
$694,884  Dept. of Education

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

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

Pattnaik, Asit  Veterinary and Biomedical Sciences
Analyses of Virulence & Attenuation Determinants of PRRSV using Reverse Genetics
$320,000  Dept. of Agriculture-NRICGP
Osorio, Fernando  Veterinary and Biomedical Sciences
VSV RNA Transcription and Replication
$996,128  DHHS-NIH-NIAID

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
$383,643  Dept. of Education
Adams, Stephanie  Industrial and Management Systems Engineering
Henze, Gregor  Architectural Engineering
Goddard, Stephen  Computer Science and Engineering

$200,000 – $999,999
Pilson, Diana  
**Biological Sciences**  
Transgenic Virus Resistant Squash: Ecological Effect  
$314,877  
Morris, T. Jack  
**Dept. of Agriculture-CSREES**  
**Biological Sciences**  

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

Pope, Kevin  
**School of Natural Resources**  
Recruitment of Walleye and White Bass in Irrigation Reservoirs  
$397,628  
*  
**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  
Allen, Craig  
**Dept of Interior-GS**  
**School of Natural Resources**  

Rajca, Andrzej  
**Chemistry**  
Stable High-Spin Polyradicals & Chiral Pi-Conjugated Systems  
$570,715  
*  
**NSF**  

Rajurkar, Kamlakar  
**Industrial and Management Systems Engineering**  
Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement  
$202,500  
Yu, Zuyuan  
**Industrial and Management Systems Engineering**  
*Modeling and Analysis of Material Removal and Tool Wear in Micro Ultrasonic Machining*  
$247,760  
*  
**NSF**  

Ramamurthy, Byrav  
**Computer Science and Engineering**  
Secure Group Communication over Wired & Wireless Networks  
$349,990  
Variyam, Vinod  
**NSF**  
**Computer Science and Engineering**  

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  
Binek, Christian  
**NSF**  
**Physics and Astronomy**  
Sokolov, Andrei  
**Physics and Astronomy**  

Reichenbach, Stephen  
**Computer Science and Engineering**  
SEI: Information Modeling for Comparative Visualizations & Analyses  
$389,228  
*  
**NSF**  

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$200,000 — $999,999
Reid, John  Mechanical Engineering
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000  Dept. of Agriculture-FS
Faller, Ronald  Civil Engineering
$545,000  Nebraska Dept. of Roads
Sicking, Dean  Midwest Roadside Safety
Rhode, John  Midwest Roadside Safety
Faller, Ron  Midwest Roadside Safety

Reid, Robert  Special Education and Communication Disorders
Leadership Training in Attention Deficit Hyperactivity Disorder
$620,006  Dept. of Education

Rilett, Laurence  Civil Engineering
Development of State of the Art Traffic Micro-Simulation Model for Nebraska
$222,896  Nebraska Dept. of Roads
Jones, Elizabeth  Civil Engineering
$831,942  Nebraska Dept. 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

$439,593  Oregon State University

Rupp, Gary  Veterinary and Biomedical Sciences
Biosecurity Practices/Wholesome Food
$249,792  Dept. of Agriculture-CSREES
Griffin, Dee  Veterinary and Biomedical Sciences
Smith, David R  Veterinary and Biomedical Sciences

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

$200,000 — $999,999
Saraf, Ravi  Chemical and Biomolecular Engineering
Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching
$332,156  NSF

Scalora, Mario  Psychology
* Threat Assessment
$509,111  ManTech International Corporation
Bulling, Denise  Public Policy Center

Schacht, Walter  Agronomy and Horticulture
Grasslands Ecological Monitoring System
$608,880  Dept. 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  Dept. of Commerce-NIST

Scheffler, Marilyn  Special Education and Communication Disorders
Project PROMOTE
$797,184  Dept. of Education
Sanger, Dixie  Special Education and Communication Disorders

Project Support: Speech-Language Pathologists Supporting Literacy Instruction
$800,000  Dept. 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  Dept. of Education
Hux, Karen  Special Education and Communication Disorders

Sellmyer, David  Physics and Astronomy/Center for Materials and Nanoscience
* Studies of Artificially Structured Composite Magnets
$381,000  Dept. of Energy

* Materials Research Science & Engineering Center: Quantum and Spin Phenomena in Nanomagnetic Structures
$200,000  NanoElectronics Research Corporation
Belashchenko, Kirill  Physics and Astronomy
Tsymbal, Evgeny  Physics and Astronomy

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

$200,000 – $999,999
Shapiro, Charles  
Northeast Research and Extension Center
Improving Organic Farming Systems across Nebraska Agroecosystems
$762,949  
Dept. of Agriculture-CSREES
Baltenesperger, David  
Panhandle Research and Extension Center
Brandle, James  
School of Natural Resources
Francis, Charles  
Agronomy/Horticulture
Knezovic, Stevan  
Northeast Research and Extension Center
Wright, Robert  
Entomology
Johnson, Ron  
School of Natural Resources

Shea, Patrick  
School of Natural Resources
Targeting Watershed Vulnerability & Behaviors Leading to Adoption of Conservation Management Practices
$570,000  
Dept. of Agriculture-CSREES
Burbach, Mark  
School of Natural Resources
Lynne, Gary  
Agricultural Economics
Martin, Alexander  
Agronomy and Horticulture
Milner, Maribeth  
Agronomy and Horticulture

Sheridan, Susan  
Educational Psychology
Leadership Training in Interdisciplinary Collaboration
$800,000  
Dept. of Education

Shield, Jeffrey  
Mechanical Engineering
The Effect of Long-Range Dumbbell Ordering on the Properties & Microstructures of Rare Earth Permanent Magnets
$340,000  
NSF

Sicking, Dean  
Civil Engineering
Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes
$634,521  
National Cooperative Highway Research Program
Khattak, Aemal  
Civil Engineering
Jones, Elizabeth  
Civil Engineering
Improved Procedures for Safety Performance Evaluation of Roadside Features
$833,940  
National Cooperative Highway Research Program
Reid, John  
Mechanical Engineering
Rohde, John  
Civil Engineering
Faller, Ronald  
Civil Engineering

Siegfried, Blair  
Entomology
Quantifying Risk Factors for Evolution of European Corn Borer Resistance to Cry1F Expressing Corn Hybrids
$346,845  
Dept. of Agriculture-CSREES
* Evaluating Bioactivity of Insecticidal Proteins against European Corn Borer (Lepidoptera: Crambidae)
$220,000  
Pioneer Hi-Bred

Simpson, Melanie  
Biochemistry
Role of Hyaluronan in Prostate Cancer Progression
$326,250  
DOD-Army Medical Research
Smith, Andrew  
University of Nebraska State Museum  
Scarab Biodiversity of Southern South America  
$300,000  
NSF  
Ocampo, Federico  
University of Nebraska State Museum

Smith, David R.  
Veterinary and Biomedical Sciences  
Intervention Strategies to Reduce Escherichia Coli 0157:H7 in Beef Feedyards  
$500,000  
Dept. of Agriculture-NRICGP  
Erickson, Galen  
Animal Science  
Hinkley, Susanne  
Veterinary and Biomedical Sciences  
Klopfenstein, Terry  
Animal Science  
Moxley, Rodney  
Veterinary and Biomedical Sciences

Efficacy of Two & Three Doses of an Experimental Escherichia coli Bacterial Extract  
$345,715  
Bioniche Life Sciences  
Erickson, Galen  
Animal Science  
Klopfenstein, Terry  
Animal Science  
Moxley, Rodney  
Veterinary and Biomedical Sciences

Snow, Daniel  
School of Natural Resources  
* Effects of Cattle Manure Handling & Management Strategies on Fate & Transport of Hormones  
$699,607  
Environmental Protection Agency  
Bartelt-Hunt, Shannon  
Civil Engineering  
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  
GAANN Fellowships for Physics at UNL  
$381,225  
Dept. of Education

Soh, Leen-Kiat  
Computer Science and Engineering  
* iLOG: Embedding & Validating Empirical Usage Intelligence in Learning Objects  
$397,705  
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

$200,000 — $999,999
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<td>Spalding, Roy</td>
<td>Agronomy and Horticulture</td>
<td>Effectiveness of Irrigated Crop Management Practices in Reducing Groundwater Nitrate Contamination</td>
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<td>* CSR-PDOS: Memory Efficient Garbage Collection Framework for Java Server Applications</td>
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<td>Resistance Improvement of Bean thru Multi-Site Screening &amp; Pathogen Characterization</td>
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Stentz, Terry  Construction Management
$301,250  Dept. of Transportation-FRA
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
$293,690  Harvard School of Public Health

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  Dept. of Agriculture-NRICGP

Stone, Julie  Plant Science Initiative/Biochemistry
Role of Transcriptional Regulator in Programmed Cell Death & Plant Development
$354,000  Dept. 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  Dept. of Agriculture-NRICGP

Stubbendieck, James  Great Plains Studies
Farm Viability, Farmland Preservation and Smart Growth
$308,000  Dept. of Agriculture-NRICGP
Esseks, J. Dixon  Great Plains Studies

Subramanian, Anu  Chemical and Biomolecular Engineering
Prep Zirconia Aggregates/Adsorbents in Bioseparations
$270,131  NSF

* Biomimetic Nanofibrillar Scaffolds for Tissue Engineering
$394,370  DHHS-NIH-NIBIB
Larsen, Gustavo  Chemical and Biomolecular Engineering
Swanson, David  
Computer Science and Engineering  
US CMS Tier 2 Center  
University of California-Los Angeles  
$200,000 — $999,999  
Bloom, Kenneth  
Physics and Astronomy  
Dominguez, Aaron  
Physics and Astronomy  

MRI: Acquisition of Affordable Shared-Memory  
Computing & Scalable Storage for Scientists & Engineers  
$300,000  
NSF

*T  US CMS Operations at the LHC  
University of California-Los Angeles  
Bloom, Kenneth  
Physics and Astronomy  
Dominguez, Aaron  
Physics and Astronomy  

Tadros, Maher  
Civil Engineering  
Class C Fly Ash in Concrete Pavement  
$321,379  
Nebraska Dept. of Roads

*  Evaluation & Repair Procedures for Precast/Prestressed  
Concrete Girders w/Longitudinal Cracking in the Web  
$300,000  
National Cooperative Highway Research Program  
Tuan, Christopher  
Civil Engineering

*  Impact of Large 0.7 inch Strand on NU-I Girder and NUDeck  
$244,408  
Nebraska Dept. of Roads  
Morcous, George  
Construction Systems

Takacs, James  
Chemistry  
Novel Cyclization Reactions for Organic Synthesis  
$422,500  
NSF

Taylor, Steve  
Food Science and Technology  
Food Allergen Database  
$200,000 — $999,999  
Goodman, Richard  
Food Science and Technology

Midwest Advanced Food Manufacturing Alliance  
$462,110  
Dept. of Agriculture-CSREES

Allergenicity Evaluation of Isinglass  
$555,035  
Various Industries
Thippareddi, Harshavardhan
Food Science and Technology
Understanding and Controlling Listeria Monocytogenes Transmission through Ready-to-Eat Meat Products
$222,270 Colorado State University

HACCP Assistance for Small & Very Small Processors with Development & Validation of Safe Meat Chilling Processes
$599,916 Dept. of Agriculture-CSREES
Wang, Lijun Biological Systems Engineering
Weller, Curtis Biological Systems Engineering
Burson, Dennis Animal Science

Improving Safety of Shell Eggs & Egg Products by Addressing Critical Research Needs for Salmonella Enteritidis & Salmonella spp
$599,951 Dept. of Agriculture-NRICGP
Froning, Glenn Food Science and Technology
Subbiah, Jeyamkondan Biological Systems Engineering

Thomas, Steven
School of Natural Resources
FIBR: Linking Genes to Ecosystems
$307,189 University of California-Riverside

Tiller, Dale
Architectural Engineering
Converging Redundant Sensor Network Information for Improved Building Control
$327,000 Dept. of Energy-Natl. Energy Tech.
Henze, Gregor School of Engineering Technology

Torquati, Julia
Child, Youth and Family Studies
Evaluation of Promising Models and Delivery Approaches to Child Care Provider Training
$484,658 Iowa State University
Wilcox, Brian Center on Children, Families and the Law
Raikes, Helen Center on Children, Families and the Law

Trainin, Guy
Teaching, Learning and Teacher Education
Arts Linc
$261,674 Lake Elsinore USD

Tsymbal, Evgeny
Physics and Astronomy
Multiscale Modeling of Magnetic Nanocontacts
$200,751 Seagate Technology

Tyler, Kimberly
Sociology
* Social Networks, HIV Risk Behaviors & Homeless Youth
$358,763 DHHS-NIH-NIDA

Uiterwaal, Kees
Physics and Astronomy
Inside a Focused Laser Beam: Molecular Dynamics
$447,001 NSF

Umstadter, Donald
Physics and Astronomy
Ion Acceleration with High Intensity Lasers
$401,277 NSF
Laser Produced Coherent X-Ray Sources
$420,000 Dept. of Energy
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<td>Pitts, David</td>
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<td>Walker, Mark</td>
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<td>Bellows, Laurie</td>
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<td>Wiener, Richard</td>
<td>Psychology</td>
<td>REU Site: Psychology and Law</td>
<td>NSF</td>
<td>$269,280</td>
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<td>Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice</td>
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<td>* Self-referencing, Social Identity &amp; Judgments of Sexual Harassment</td>
<td>NSF</td>
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<td>Wilhite, Donald</td>
<td>School of Natural Resources</td>
<td>Drought Monitoring, Planning &amp; Mitigation</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$495,371</td>
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<td>Mitigation &amp; Preparedness Technologies for the US</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$589,996</td>
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<td>Estimating the Impacts of Complex Climatic Events: Drought in Colorado, Nebraska &amp; New Mexico</td>
<td>Dept. of Commerce-NOAA</td>
<td>$300,000</td>
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<td></td>
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<td>* Developing a Drought Preparedness Framework for Tribal Governments: Moving from Crisis to Risk-Based Management</td>
<td>Dept. of Interior-BIA</td>
<td>$609,539</td>
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$200,000 — $999,999
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<th>Name</th>
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<td>Wilson, Brent</td>
<td>Mechanical Engineering</td>
<td>Development of Improved Product Performance through Optimization &amp; Modeling of Engineering Materials Processing &amp; Function</td>
<td>Brenco/Amsted Industries</td>
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<td>Wilson Jr., Robert</td>
<td>Panhandle Research and Extension Center</td>
<td>Assessing the Long Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems</td>
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<td>Advancing Onsite Wastewater Treatment in Nebraska</td>
<td>Nebraska Dept. of Environmental Quality</td>
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<td>Southeast Research and Extension Center</td>
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<td>Woodward, Gordon</td>
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<td>Increasing Participation in Computer Science, Engineering, &amp; Mathematics through NSF Scholarships at UNL</td>
<td>Dana-Farber Cancer Institute</td>
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<td>Ballard, John</td>
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<td>Wortmann, Charles</td>
<td>Agronomy/Horticulture</td>
<td>Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest</td>
<td>Nebraska Corn Board</td>
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<td>$235,839</td>
<td>Erickson, Galen</td>
<td>Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest</td>
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<td>Jose, H. Douglas</td>
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<td>Agricultural Economics</td>
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<td>Yang, Yiqi</td>
<td>Textiles, Clothing and Design</td>
<td>Resistance of Sulfur Dyed Fabrics to Oxidative Bleaching &amp; Acidic Tendering: Improvement &amp; Application</td>
<td>Procter &amp; Gamble</td>
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Yoder, Ronald
Biological Systems Engineering
Nebraska AgrAbility
$800,000
Baquet, Alan
Dept. of Agriculture-CSREES
Agricultural Economics

Yohe, John
IANR-Intl 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
Dept. of Agriculture-NRICGP
Epigenetic Effects of Biotin on Activation of Endogenous Viral Sequences
$395,601
DHHS-NIH-NIEHS

Zeng, Xiao Cheng
Chemistry
Crystallization and Interfacial Properties of Silicon
$235,000
Dept. of Energy
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
$429,682
NSF
Harshman, Lawrence
Biological Sciences
Physiological & Molecular Causes of Genetic Variation/Covariation in Endocrine Regulation
$372,000
NSF

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

$200,000 — $999,999
Career and K Awards
Active awards in 2007
* Indicates new in 2007

NSF CAREER Grants
National Science Foundation CAREER grants are awarded only to untenured junior faculty. NSF emphasizes that the grants recognize research and education “of the highest quality and in the broadest sense.” CAREER grants are unique in requiring a four- to five-year plan for the scientist’s development as both a researcher and an educator.

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Field</th>
<th>Project Description</th>
<th>Amount</th>
<th>Agency</th>
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<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>
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<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>
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<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>
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<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>
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<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>
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<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>
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Gursoy, Mustafa
Electrical Engineering
CAREER: Energy-Efficient Wireless Communications under Channel Uncertainty
$400,000 NSF

Hebets, Eileen
Biological Sciences
* Evolution and Function of Complex Signaling in Wolf Spider Genus Schizocosa
$680,351 NSF

Kim, Yong Rak
Civil Engineering
* Research & Education on Advanced Multiscale Modeling-Analysis of Roadway Materials, Mixtures, & Infrastructure Systems
$402,044 NSF

Wang, Lily
Architectural Engineering
Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations
$406,376 NSF

Xu, Lisong
Computer Science and Engineering
* Stochastic TCP Friendliness: Exploring the Design Space of TCP-Friendly Traffic Control in Best-Effort Internet
$400,000 NSF
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  
$670,826  
DHHS-NIH-NIMH

**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
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<th>Name</th>
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<th>Award Amount</th>
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<th>End Date</th>
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<td>Cahan, David</td>
<td>History</td>
<td>A Biography of Hermann von Helmholtz</td>
<td>$102,868</td>
<td>NSF</td>
<td>1/1/05</td>
<td>12/31/07</td>
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<td>Kooser, Ted</td>
<td>English</td>
<td>American Life in Poetry Project</td>
<td>$125,000</td>
<td>Poetry Foundation</td>
<td>1/1/05</td>
<td>12/31/07</td>
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</table>

David Cahan, Charles Bessey professor and professor of history, is writing a full-scale, definitive biography of Hermann von Helmholtz (1821-1894), one of the major figures of modern science. The biography will provide a fresh account of Helmholtz’s personal life within the context of his family, schooling and friends, and portray and analyze his working life as a scientist—principally as a physiologist and physicist, but also as a leader in other fields (chemistry, mathematics, psychology and meteorology), all within the context of German science. It will show how he represented the aims, results and image of science to the educated but otherwise non-scientific classes of Europe and America. It also will show the implications of contemporary science that he drew for the fine arts, medicine, industry and society at large. The extensive use of correspondence means the work will be the first new modern biography of Helmholtz as well as one of the most detailed biographies of a scientist ever published.

The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry project, an initiative of Ted Kooser, the 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.

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.
Implementation Grants for Special Projects—
Journals of Lewis and Clark Online Edition

$222,177  National Endowment for the Humanities
9/1/03–8/31/07

Walter is using a National Endowment for the Humanities grant to create an on-line edition of the Journals of the Lewis and Clark Expedition, edited by Gary E. Moulton, UNL professor emeritus of history. The interdisciplinary team is drawn from the UNL Libraries, the University of Nebraska Press, and the Center for Great Plains Studies. The site will also feature supplementary texts relating to Euro-American and Native perspectives on the Lewis and Clark expedition, images, and audio files of poet William Kloefkorn reading selected passages. Online searchability will make the Web site a useful resource for scholars and the general public.

* National Digital Newspaper Program: Nebraska

$271,016  National Endowment for the Humanities
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**

*Active awards in 2007  * Indicates new in 2007

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<th>Name</th>
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<tr>
<td>Bleed, Peter</td>
<td>Anthropology and Geography</td>
<td><em>Archaeological Investigation of the Battle of El Viso, July 1, 1898</em></td>
<td>$30,220</td>
<td>National Geographic Society</td>
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<td>Engen-Wedin, Nancy</td>
<td>Lied Center for Performing Arts</td>
<td>ArtsReach  Umo‘ho Cultural Arts Program</td>
<td>$47,500</td>
<td>Nebraskans for the Arts</td>
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<td>$23,250</td>
<td>Kennedy Center for Performing Arts</td>
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<td>Handa, Rumiko</td>
<td>Architecture</td>
<td><em>Spirit of Design: Multidisciplinary, Multimedia Database and Website</em></td>
<td>$12,000</td>
<td>Graham Foundation</td>
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<td>Architecture</td>
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<td>Textiles, Clothing and Design</td>
<td><em>International Quilt Study Center New Building Opening Exhibition</em></td>
<td>$21,274</td>
<td>Cooper Foundation</td>
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<td>International Quilt Study Center</td>
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<td>Jewell, Andrew</td>
<td>Center for Digital Research in the Humanities</td>
<td><em>Mapping a Writer’s World: A Geographic Chronology of Willa Cather’s Life</em></td>
<td>$7,800</td>
<td>Nebraska Humanities Council</td>
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<td>English</td>
<td><em>Walt Whitman Archive</em></td>
<td>$14,000</td>
<td>Cooper Foundation</td>
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<td>Randolph, Ladette</td>
<td>University Press</td>
<td>Access to Artistic Excellence: International Translations</td>
<td>$25,000</td>
<td>National Endowment for the Arts</td>
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<td>University Libraries</td>
<td>Quilt Index National Leadership Project</td>
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<td>Homestead – Broken Bow Microfilming Project (CESU)</td>
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<td>Dept. of Interior-NPS</td>
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<td>Economics</td>
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<td>Weiss, Wendy</td>
<td>Textiles, Clothing and Design</td>
<td>Hillestad Textiles Gallery</td>
<td>$5,535</td>
<td>Friends of the Hillestad Textiles Gallery</td>
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PATENTS ISSUED IN 2007
Recognition for faculty who received patents
UNL faculty indicated in red

**Terry J. Klopfenstein**
Animal Science
Title: Ruminant Feed and Method of Making
Date: November 28, 2007
No. 840554 (European)
Country: Ireland

**Yiqi Yang**
Textiles, Clothing and Design
Title: Sulfur Dye Protection Systems and Compositions and Methods Employing Same
Date: October 8, 2007
No. 210789
Country: India

Adnan Hadzialic; Stephen Robert Platt; Dmitry Oleynikov; Shane Farritor
Mechanical Engineering
Title: Robot for Surgical Applications
Date: April 3, 2007
No. 7,199,545
Country: United States

**Dean Sicking; Keith Kurz; Ronald Faller**
Civil Engineering; Midwest Roadside Safety Program
Title: Traffic Noise Barrier System
Date: May 22, 2007
No. 7,220,077
Country: United States

**Sally Mackenzie; Zarir Vaghchhipawala**
Plant Pathology
Title: Soybean FGAM Synthase Promoters Useful in Parasite Control
Date: May 29, 2007
No. 7,223,901
Country: United States

**Stephen M. Goddard**
Computer Science and Engineering
Title: Fault Tolerant Firewall Sandwiches
Date: August 7, 2007
No. 7,254,834
Country: United States
Licensee: Perennial Plant Products, Inc. (dba Blooms of Bressingham of North America)
Descriptions: Chrysanthemum: 95003a, 94019, Orange Spider, Big Purple, Blush, Sunsat., 80108, 81126, 84112
Clematis groundcover
Dianthus: Roshish One, Prairie Pink, Sweetheart, 24025, Pixie, Hearts Desire
Penstemon: Prairie Star, Prairie Flame, Prairie Twilight, Lady Husker, Norma
Schizachrium: scoparium 1, scoparium 2
Veronica
Inventors: Dale Lindgren; Daniel Schaaf
Department: West Central Research and Extension Center

Licensee: Neogen Corporation
Description: Immunoassay technology for use in detection of allergens in food
Inventors: Stephen L. Taylor; Susan Hefle
Department: Food Science and Technology
Dr. Hefle died in August of 2006.

Licensee: Sharp Bros. Seed Co.
Description: Goldmine variety of big bluestem
Inventor: Terrance P. Riordan
Department: Agronomy and Horticulture

Licensee: Nebraska Surgical Solutions, Inc.
Descriptions: In vivo robot
Method and robotic device for drug delivery
A display for surgical visualization
Imaging robot
Inventors: Shane Farritor; Dmitry Oleynikov
Department: Mechanical Engineering

Licensee: Channel Bio Corp.
Description: Roundup-ready soybean varieties with increased tolerance to glyphosate
Inventor: George Graef
Department: Agronomy and Horticulture

Licensees: University of North Dakota, University of New Orleans, Purdue University
Description: CALMIT Data Acquisition Program (CDAP), software for the collection of spectral data using dual field ratiometers
Inventors: Bryan Leavitt; Donald Rundquist
Department: Conservation and Survey Division

Licensee: The Grain Place, Inc.
Description: Yellow hilum, high protein soybeans
Inventor: George Graef
Department: Agronomy and Horticulture
Licensee: CYRO Industries
Description: Crashworthy protection system for roadside sound barriers (PARAGLAS Barrier)
Inventor: Ron Faller
Department: Midwest Roadside Safety Program

Licensee: Terra Nova Nurseries
Description: Penstemon: Dark Towers
Inventor: Dale Lindgren
Department: West Central Research and Extension Center

Licensee: Chrysantis, Inc.
Description: New gene that intensifies purple plant color in pearl millet
Inventor: David Andrews
Department: Agronomy and Horticulture

Licensee: South Dakota Crop Improvement
Description: Husker Genetics Brand Overland NE01643 (wheat)
Inventor: Stephen Baenziger
Department: Agronomy and Horticulture

Licensee: Sementes Adriana
Description: Pearl millet parent lines NM, hybrids, and other germplasms to include any seeds that are increased or directly produced using NM, NPM, NE or NFPM lines
Inventor: David Andrews
Department: Agronomy and Horticulture
START UP COMPANIES IN 2007
Recognition for faculty who started companies
UNL faculty indicated in red

Shane Farritor; Dmitry Oleynikov
Mechanical Engineering
Company: Nebraska Surgical Solutions, Inc.
Start Date: April 20, 2007

Hendrick Viljoen; Joel TerMaat
Chemical and Biomolecular Engineering
Company: Philisa Technology Corporation
Start Date: August 13, 2007
CREATIVE WORKS IN FINE AND PERFORMING ARTS
Faculty who created, performed or produced creative works in fine and performing arts, nationally or internationally
UNL faculty indicated in red

John R. Bailey School of Music

Diane C. Barger School of Music
Soloists, performance, Into the Monster’s Lair, clarinet with piano and dancer. International Clarinet Association’s ClarinetFest, Vancouver, Canada.

Anthony J. Bushard School of Music

Dana Fritz Art and Art History
Artist, exhibit, Villandry et les Jardins du Monde, photography. Chateau de Villandry, France.

Michael F. James Textiles, Clothing and Design
Artist, exhibit, Interference Effect: Betrayed Lover’s Knot #2, fabric construction quilt. Touring exhibition co-sponsored by Craft in America Inc., and Curatorial Assistance Traveling exhibitions (CATE) and complementing the PBS production Craft in America that aired nationally in May 2007.
Artist, exhibit, Flights of Fantasy, multiple works, fabric constructions and quilts. Museum of Art, Seoul, South Korea. Invitational exhibit organized by the U.S. State Department’s Art-in-Embassies Program, the U.S. Embassy, Seoul, and Seoul National University.
Artist, exhibit, solo exhibition. Galerie Jonas, Petit-Cortaillod, Neuchâtel, Switzerland.

Gail M. Kendall Art and Art History
Artist, exhibit, 32nd Pottery Exhibition. Art School at Old Church, Demarest, New Jersey.
Artist, exhibit, ceramics invitation. Red Lodge Ceramic Center, Red Lodge, Montana.
Artist, exhibit, St. Croix Pottery Tour. Mayeron Cowles Studio, Shaffer, Minnesota.
Karen S. Kunc  Art and Art History
Artist, exhibit, solo exhibition, prints. Gallery Piano Nobile, Krakow, Poland.
Artist, exhibit, Lyrical Legacy, prints & artist’s books. Leedy-Voulkos Art Center, Kansas City, Missouri.
Artist, exhibit, solo exhibition, prints. Huntington Museum of Art, Huntington, West Virginia.

Barbara Trout  Textiles, Clothing and Design
Artist, exhibit, Trappings Two, juried exhibition. International Textile and Apparel Association, California State University Art Gallery, Northridge, California.

Wendy R. Weiss  Textiles, Clothing and Design
Artist, exhibit, Polka Dot Clouds, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.
Artist, exhibit, Striped Trees, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.

Sandra Williams  Art and Art History
Artist, exhibit, The History of Zero, solo exhibition, mixed media. The Arts Center in Orange, Orange, Virginia.
BOOKS

Recognition for faculty who have written books
UNL faculty indicated in red

Marco Abel

Jonis Agee

Bruce J. Avolio

Grace Bauer

Donald F. Becker

Susan Belasco


David Beukelman

Brian H. Bornstein

Kathy R. Bosch

James Bovaird
Amy N. Burnett

History


Enrique Martinez Celaya

Art and Art History


Frankie M. Condon

English


Sidnie White Crawford

Classics and Religious Studies


John Creswell

Educational Psychology


T. Newell Decker

Special Education and Communication Disorders


John DeFrain

Child, Youth and Family Studies


Yasar Demirel

Chemical and Biomolecular Engineering

Martin Despang

Lester A. Digman

Wheeler Winston Dixon

Beth Doll

Judy A. Driskell

David P. Forsythe

Chris W. Gallagher

James Alex Garza

Norman Geske

Joan R. Giesecke

Vadim N. Gladyshev

Amy M. Goodburn

Andrew R. Graybill
Janet S. Hanna  Extension; Child, Youth and Family Studies

Glenn J. Hoffman  Biological Systems Engineering

Srikanth B. Iyengar  Mathematics

Douglas M. Jackson  Architecture

Evelyn M. Jacobson  Modern Languages and Literatures

Manfred R. Jacobson  Modern Languages and Literatures; Judaic Studies

Paul A. Johnsgard  Biological Sciences

Frances W. Kaye  History and Ethnic Studies; English

Ari Kohen  Political Science; Judaic Studies

Marjorie J. Kostelnik  College of Education and Human Sciences


Ted Kooser  English
Eileen M. Krumbach  
Extension; Child, Youth and Family Studies  

Carole Levin  
History  

Frederick M. Link  
English  

Kathleen A. Lodl  
4-H Youth Development  

Fred Luthans  
Management  

Derrel L. Martin  
Biological Systems Engineering  

Jennifer McKitrick  
Philosophy  

Patrice C. McMahon  
Political Science  

Colleen Medill  
College of Law  

Mary E. Nelson  
Extension; Child, Youth and Family Studies  

David L. Olson  
Management  

Vicki Plano Clark  
Psychology  
Kenneth M. Price  

Sarah E. Purcell  

Ladette Randolph  

Hilda Raz  

Guy J. Reynolds  

Paul A. Savory  

Khalid Sayood  

Robert F. Schopp  

Debra E. Schroeder  

Susan M. Sheridan  

Keng Siau  
Management  


William D. Spaulding  
Psychology  

Jordan Stump  
Modern Languages and Literatures  


John D. Turner  
Classics and Religious Studies  
Turner, J.D. (2007). Ecrits gnostiques. La Bibliothèque de Nag Hammadi, Laval, Canada: Gallimard.

Mary Uhl-Bien  
Management  

Linda Ulrich  
IANR Communications and Information Technology  

Hendrik van den Berg  
Economics  

William B. Walstad  
Economics  


Mary K. Warner  
Extension; Child, Youth and Family Studies  

Richard L. Wiener  
Psychology  
Steven L. Willborn  
College of Law


David J. Wishart  
Anthropology and Geography


John R. Wunder  
History; College of Journalism and Mass Communications


Susan A. Wunder  
Teaching, Learning and Teacher Education


Janos Zempleni  
Nutrition and Health Sciences

RECOGNITIONS AND HONORS
Faculty who have been elected to honor academicians or who have received national or international honors
UNL faculty indicated in red

Myron Braake  
Plant Pathology (Emeritus)  
National Academy of Science membership  
Dr. Braake died June 15, 2007.

Brian Larkins  
Office of Research; Agronomy and Horticulture  
National Academy of Science membership

William Splinter  
Larsen Tractor Test and Power Museum; Biological Systems Engineering (Emeritus)  
National Academy of Engineers membership

James Van Etten  
Plant Pathology  
National Academy of Science membership

Sam Allgood  
Economics  
Member, American Economic Committee on Economic Education

Diane C. Barger  
School of Music  
Buffet Crampon Artist/Clinician, Buffet Crampon USA, Inc.  
Treasurer, International Clarinet Association

Fred P. Baxendale  
Entomology  
Award for Excellence in Extension, National Association of State Universities and Land-Grant Colleges

Mary M. Beck  
Animal Science  
Fellow Award, Poultry Science Association

Christopher R. Bilder  
Statistics  
CAUSEWeb Resource of the Year Award, Consortium for the Advancement of Undergraduate Statistics Education

Dawn O. Braithwaite  
Communication Studies  
Distinguished Service Award, Western States Communication Association  
Second vice president, National Communication Association

Chris R. Calkins  
Animal Science  
K.C. Wong Education Foundation invited lecturer, Nanjing Agricultural University, Nanjing, China  
Invited presentation at China Congress, International Congress of Meat Science and Technology

Gwendolyn M. Combs  
Management  
Elected to executive committee, Gender and Diversity in Organizations Division, Academy of Management  
Vice president, president elect, Management Faculty of Color Association, Inc.
Rochelle Dalla, Child, Youth and Family Studies
Distinguished Publication Award, Association of Women in Psychology

Mary Jo Deegan, Sociology
Award for Significant Contributions to the Study and History of Early Women Sociologists, Harriet Martineau Sociological Society

John DeFrain, Child, Youth and Family Studies
Honorary appointment, Conjoint Professor of Family Studies, University of Newcastle, New South Wales, Australia

Martin Despang, Architecture
Social Motion paper presented at the Urban Transport Conference, Coimbra, Portugal
Top nominee, INDEX Award
Second place, Im Zentrum zu Hause, Berlin, Germany
Top nominee, NIKE BDA Award

Lester A. Digman, Management
2007 Distinguished Paper, Decision Sciences Institute

Matthew B. Dwyer, Computer Science & Engineering
Distinguished Scientist, Association for Computing Machinery

Calvin L. Ferrell, Animal Science
Research Fellow Award, American Society of Animal Science

James Ford, English
Ariel Bybee, School of Music
International Trophy Grand Prize, Waterford International Festival of Light Opera

David P. Forsythe, Political Science
Human Rights Scholar of the Year, American Political Science Association, Human Rights Section
Senior Fulbright Research Chair, United States and Danish Fulbright Committees

John E. Foster, Entomology
International Plant Protection Award of Distinction 2007, International Association for the Plant Protection Sciences

Scott M. Fuess, Jr., Economics
Fellowship, Institute for the Study of Labor (IZA) Bonn, Germany

Russell Ganim, Modern Languages and Literatures
Thomas Carr, Modern Languages and Literatures
Co-organizers, North American Society for Seventeenth Century French Literature Conference

James A. Garza, History and Ethnic Studies
Journal of the West Award for Best Article of the Year, Journal of the West

James A. Gosey, Animal Science
Pioneer Award, Beef Improvement Federation
David S. Hage Chemistry
Top 20 Most Cited Review Articles (2002-2007), Journal of Chromatography

David J. Hansen Psychology
Fellow, American Psychological Association

Janet A. Harkness Gallup Research Center
Member, German Youth Institute Advisory Taskforce
Member, Social Behavioral and Economic Sciences Advisory Board, National Science Foundation

Jeff G. Hart Extension
National Award for Diversity 2007, USDA/CSREES/ECOP

Leon G. Higley Entomology
2007 Foundation Memorial Award, Entomological Society of America

Terry Housh Nutrition and Health Sciences
Fellow, National Strength and Conditioning Association

Srikanth B. Iyengar Mathematics
Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation, Germany

Margaret D. Jacobs History
Visiting fellowship, Centre for Indigenous Studies, Australian National University

Michael James Textiles, Clothing & Design
Silver Star Award, Quilts, Inc. and International Quilt Festival

Paul J. Jasa Biological Systems Engineering
Outstanding Presentation Award, 2007 National No-Tillage Conference

Jay T. Johnson Anthropology and Geography
Chair, Indigenous Peoples’ Knowledges and Rights Commission, International Geographical Union

David D. Jones Biological Systems Engineering
2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education

Jeannette E. Jones History and Ethnic Studies
Deutsche Bank Junior Scholar-in-Residence Fellowship, Heidelberg Center for American Studies

Alan C. Kamil Biological Sciences, Psychology
Quest Award for Research Contributions, Animal Behavior Society

Gordon V. Karels Finance
Visiting scholar, Federal Reserve Bank of Atlanta

Karen S. Kunc Art and Art History
2007 Printmaker Emeritus Award, Southern Graphics Council
Stephen Lahey  Classics and Religious Studies
John Nicholas Brown Prize for Best First Book, Medieval Academy of America

Gail F. Latta  Libraries
Bobby Knight Dissertation of the Year Award finalist, Association for the Study of Higher Education

Sang M. Lee  Management
Keynote speaker, International Conference on Strategic Innovation in Bandung, Indonesia
Distinguished Global Leadership Award, Pan-Pacific Business Association

Carole Levin  History
National Endowment for the Humanities Fellowship, Folger Shakespeare Library

Donald G. Levis  Animal Science
Master of the Pork Industry, National Hog Farmer magazine

Yijia Lin  Finance
Ernst Meyer Prize, Geneva Association

Yongfeng Lu  Electrical Engineering
Fellow, Society of Photo-optical Instrumentation Engineers

Ann Mari May  Economics
Member, American Association of University Professors Committee on the Economic Status of the Profession

Allan L. McCutcheon  Gallup Research Center; Statistics
Senior statistical director, Exit Polls for the National Election Pool Fellow, Royal Statistical Society

George E. Meyer  Biological Systems Engineering
2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education

Nancy Miller  Textiles, Clothing & Design
Best Paper Award, Journal of Small Business Management and the Office Depot

Helen A. Moore  Sociology
President, Midwest Sociological Society

Sucheta Nadkarni  Management
Outstanding Service Award, Managerial and Organizational Cognition Division of the Academy of Management

Fiona Nah  Management
Extra-Outstanding Associate Editor, International Conference on Information Systems

Glenn E. Nierman  School of Music
Outstanding Service to the National Association for Music Education, Nebraska Music Educators Association
RECOGNITIONS AND HONORS

Andrezej Nowak  Civil Engineering
Award of National Professorship, Leach Kaczynski, President of Poland

Edward Nowlin  Marketing
Co-winner, American Marketing Association’s Sales SIG
Dissertation Proposal, American Marketing Association

Alexander D. Pavlista  Agronomy and Horticulture
President, Potato Association of America

Allan C. Peterson  Mathematics
Euler Prize for Research in Time Scales, Technical University, Munich

Byrav Ramamurthy  Computer Science & Engineering
Vice chair, Optical Networking Technical Committee, IEEE
Communications Society

Brett C. Ratcliffe  Entomology; Museum
Outstanding Paper of the Year Award, Coleopterists Society

Peter Revesz  Computer Science & Engineering
Fulbright Senior U.S. Scholar, Fulbright Foundation, Greece

Sheila E. Scheideler  Animal Science
Helene Cecil Leadership Award, Poultry Science Association

Marc Schneiderjans  Management
Fellow, Decision Sciences Institute

Keng Siau  Management
Keynote speaker, Second AIS SIGSAND European Symposium on Systems Analysis and Design, Gdansk, Poland
Editor in chief, Journal of Database Management
Co-editor-in-chief, Advances in Database Research Series
Outstanding Service Award, International Federation for Information Processing

Dean Sicking  Civil Engineering; Midwest Roadside Safety Facility
National Medal of Technology, President George W. Bush

Robert G. Simon  Marketing
Outstanding Faculty Adviser, International Collegiate American Marketing Association

Ravipreet S. Sohi  Marketing
Track co-chair, American Marketing Association’s Winter Educators’ Conference
Associate editor, International Journal of Applied Decision Sciences

Robert J. Spreitzer  Biochemistry
Chair, North-Central Regional Project NC-1168, Regulation of Photosynthetic Processes, NC-1168 Membership
Alan E. Steinweis  
History  
Finalist, National Jewish Book Award for Studying the Jew, Holocaust Category, Jewish Book Council

William G. Thomas III  
History  
Distinguished Lecturer, Organization of American Historians  
Digital Innovation Fellowship, American Council of Learned Societies

Harriet S. Turner  
International Affairs; Modern Languages and Literatures  
Encomienda de la Orden de Isabel la Católica, His Majesty D. Juan Carlos I, King of Spain

Mary Uhl-Bien  
Management  
Best Reviewer Award, Leadership Quarterly

L. Dale Van Vleck  
Animal Science  
Pioneer Award, National Dairy Shrine

Lily M. Wang  
Architectural Engineering  
Fellowship, Acoustical Society of America

Clarence E. Waters  
Architectural Engineering  
Elected to the Board of Governors, Architectural Engineering Institute

Les B. Whitbeck  
Sociology  
Community, Culture, and Prevention Science Award, Society for Prevention Research

Brian L. Wilcox  
Center on Children, Families and the Law; Psychology  
Nicholas Hobbs Award for Distinguished Contributions to Research on Child Policy and Advocacy, American Psychological Association

Ronald E. Yoder  
Biological Systems Engineering  
President’s Citation, American Society for Agricultural and Biological Engineers

Xiao Cheng Zeng  
Chemistry; Physics & Astronomy  
Fellow, American Association for the Advancement of Science
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
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<tbody>
<tr>
<td>USAID</td>
<td>United States Agency for International Development</td>
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<tr>
<td>CNS</td>
<td>Corporation for National Service</td>
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<td>USDA</td>
<td>United States Department of Agriculture</td>
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<tr>
<td>ARS</td>
<td>Agricultural Research Service</td>
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<td>BRDC</td>
<td>Biotechnology Research and Development Corporation</td>
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<tr>
<td>CSREES</td>
<td>Cooperative State Research, Education &amp; Extension Service</td>
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<tr>
<td>ERS</td>
<td>Extension Research Service</td>
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<td>FAS</td>
<td>Foreign Agriculture Service</td>
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<td>FS</td>
<td>Forestry Service</td>
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<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
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<tr>
<td>NRICGP</td>
<td>National Research Initiative Competitive Grant Program</td>
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<tr>
<td>RMA</td>
<td>Risk Management Agency</td>
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<tr>
<td>SARE</td>
<td>Sustainable Agricultural Research and Education Program</td>
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<td>DOC</td>
<td>Department of Commerce</td>
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<tr>
<td>EDA</td>
<td>Economic Development Administration</td>
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<tr>
<td>NOAA</td>
<td>National Oceanic &amp; Atmospheric Administration</td>
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<td>DOD</td>
<td>Department of Defense</td>
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<tr>
<td>Army Corps of Engineers</td>
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<tr>
<td>Army Research Office</td>
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<tr>
<td>DEpSCoR</td>
<td>Defense Experimental Program to Stimulate Cooperative Research</td>
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<tr>
<td>Naval Research Laboratory</td>
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<tr>
<td>Office of Naval Research</td>
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<tr>
<td>U.S. Army Medical Research Acquisition Activity</td>
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<tr>
<td>DEd</td>
<td>Department of Education</td>
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<tr>
<td>FIPSE</td>
<td>Fund for the Improvement of Postsecondary Education</td>
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<tr>
<td>GAANN</td>
<td>Graduate Assistance in Areas of National Need</td>
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<tr>
<td>DOE</td>
<td>Department of Energy</td>
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<tr>
<td>EPScoR</td>
<td>Experimental Program to Stimulate Cooperative Research</td>
</tr>
<tr>
<td>NIGEC</td>
<td>National Inst for Global Environmental Change Sandia National Laboratories</td>
</tr>
</tbody>
</table>
DHHS Department of Health and Human Services
ACF Administration for Children and Families
CDC Centers for Disease Control
NIH National Institutes of Health
  Fogarty International Center
NCI National Cancer Institute
NCRR National Center for Research Resources
  National Eye Institute
NHLBI National Heart, Lung and Blood Institute
  National Institute on Aging
NIAID National Institute on Allergy & Infectious Diseases
NICHD National Institute of Child Health and Human Development
NIDCD National Institute on Deafness & Communication Disorders
NIDDK National Institute of Diabetes, Digestive & Kidney Disease
NIDA National Institute on Drug Abuse
NIGMS National Institute on General Medical Sciences
NIMH National Institute of Mental Health

HUD Department of Housing and Urban Development

DoI Department of Interior
  BR Bureau of Reclamation
  FWS Fish & Wildlife Service
  GS Geological Survey
  NPS National Park Service

DoT Department of Transportation
  Federal Highway Administration

EPA Environmental Protection Agency

IMLS Institute of Museum & Library Services

NASA National Aeronautics and Space Administration
  Ames Research Center
  Goddard Space Flight Center
  Jet Propulsion Laboratory
  John Stennis Space Center
  Lewis Research Center
  Wallops Flight Facility

NCHRP National Cooperative Highway Research Program

NEA National Endowment for the Arts

NEH National Endowment for the Humanities

NSF National Science Foundation
  EPSCoR Experimental Program to Stimulate Cooperative Research

NSA National Security Agency