

Office of Research and Economic Development

# RESEARCH AND CREATIVE ACTIVITY

July 1, 2017 - June 30, 2018

Major Sponsored Programs and Faculty Awards for Research and Creative Activity

University of Nebraska-Lincoln



**Bob Wilhelm**Vice Chancellor for Research and Economic Development

This booklet highlights successes in research, scholarship and creative activity by University of Nebraska–Lincoln faculty during the fiscal year July 1, 2017–June 30, 2018.

It lists investigators, project titles and funding sources on major grants and sponsored program awards received during the year; fellowships and other recognitions and honors bestowed on our faculty; books published by faculty; performances, exhibitions and other creative activity by our faculty; and patents and licensing agreements issued for products of Nebraska research.

Notably, the university reached a major milestone in FY2017: earning \$302 million in total research expenditures, a 23 percent increase over the past decade. Our outstanding faculty made it possible to reach that longstanding goal.

The list of accomplishments in this booklet is remarkable. Each line represents the "glory" side of research. What often goes unrecognized is the grit underlying this work: the intense dedication to inquiry and practice; the long hours spent writing and revising proposals; the patience given to organizing and analyzing data. The university, the state of Nebraska and the world are stronger because of our faculty's dedication to giving their best every day.

As a university, we will continue making long-term investments to grow our research enterprise and to position Nebraska as a hub for innovation. The celebration of the university's 150th anniversary in 2019 offers a ripe opportunity for us to consider who we are now, and what we strive to become. The Nebraska Commission of 150—which includes more than 150 faculty, staff, students, alumni and friends—is working to define the university's path to distinction and impact during the next 25 years. Research and economic development must play a crucial role in advancing the university during its next chapter, and I'm confident our talented, committed faculty will rise to the challenge.

I appreciate your interest in and support for Nebraska research. In my first six months here, I have met with many of our faculty and been impressed by their talents, goals and vision for the future. I'm pleased to present this record of accomplishments. With hard work and dedication from all involved in the university's research endeavors, I'm confident we can build on past successes and make a lasting impact.

Bur

Bob Wilhelm

# CONTENTS

3	Awards of \$5 Million or More
9	Awards of \$1 Million to \$4,999,999
20	Awards of \$250,000 to \$999,999
45	Early Career Awards
48	Arts and Humanities Awards of \$250,000 or More
50	Arts and Humanities Awards of \$50,000 to \$249,99
51	Arts and Humanities Awards of \$5,000 to \$49,999
<b>52</b>	Patents
56	License Agreements
58	Creative Activity
61	Books
64	Recognitions and Honors
70	Glossary

The university, the state of Nebraska and the world are stronger because of our faculty's dedication to giving their best every day."

# Awards of \$5 Million or More

Active awards, July 1, 2017–June 30, 2018

\* Indicates new in 2017–2018

Cahoon, Edgar Bio	chemistry/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
	nd Rhizobiome Innovation (CRRI)NSF-EPSCoR
Adamec, JiriBio	chemistry/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Alfano, James Plant	Pathology/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Clemente, Thomas	Agronomy and Horticulture/ Center for Biotechnology/
Drijber, Rhae	Center for Plant Science Innovation/ Nebraska Center for Redox Biology Agronomy and Horticulture/ Center for Biotechnology/
Griep, Mark	Center for Plant Science Innovation/ Nebraska Center for Redox Biology/ Chemistry/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Helikar, TomasBio	chemistry/Center for Biotechnology/ Center for Plant Science Innovation/
Herr, Joshua Plant	Nebraska Center for Redox Biology Pathology/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Moriyama, Etsuko Biologica	l Sciences/Center for Biotechnology/ Center for Plant Science Innovation/
Russo, Sabrina Biologica	Nebraska Center for Redox Biology   Sciences/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Schachtman, Daniel	Agronomy and Horticulture/ Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology

	Agronomy and Horticulture/ Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology
, ·	hemistry/Center for Biotechnology/ Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Walia, Harkamal	Agronomy and Horticulture/
,	Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Weber, Karrie	Biological Sciences/
	Earth and Atmospheric Sciences/
	Center for Biotechnology/
(	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Yu, Bin Biological	Sciences/Center for Biotechnology/
(	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
0.	Sciences/Center for Biotechnology/
(	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology



The University of Nebraska–Lincoln is leading a \$20 million, Nebraska-based research effort to improve crop productivity. Funded with a five-year award from the National Science Foundation's Established Program to Stimulate Competitive Research, or EPSCoR, this project draws upon a range of expertise in Nebraska. The university is teaming with scientists at the

University of Nebraska Medical Center, University of Nebraska at Kearney and Doane University on the Center for Root and Rhizobiome Innovation. Project co-leaders are Edgar Cahoon, George W. Holmes Professor of Biochemistry and director of the Center for Plant Science Innovation, and James Alfano, Charles Bessey Professor of Plant Pathology. The research uses a holistic strategy to study root and soil microbe interactions and to develop new biological tools to enhance crop performance.

#### Claes, Daniel

#### **Physics and Astronomy**

U.S. CMS Phase-1 Upgrades

\$11,479,310 ......NSF



6/15/14 - 5/31/19

Physicist Daniel Claes leads a collaboration involving eight universities to upgrade the Compact Muon Solenoid particle detector, a key component of the world's largest physics experiment. With a five-year, nearly \$11.5 million grant from the National Science Foundation, the team is working to increase the effectiveness of a vital component of the

Large Hadron Collider at CERN laboratory in Switzerland, the supercollider that made discovery of the Higgs boson possible. The Nebraska team was part of the multi-institutional collaboration that built the original CMS experiment, one of two large particle detector experiments at the Large Hadron Collider. With this NSF grant, they now lead a large research partnership to upgrade the detector in stages through 2019. Their collaborators are at the University of Kansas, University of Illinois at Chicago, Rutgers University, Cornell University, SUNY Buffalo, Purdue University Calumet, Notre Dame University and Northeastern University.

#### Graef. Michelle Center on Children. Families and the Law

Paul, Megan . . . . . . Center on Children, Families and the Law Stephenson, Kate . . . . . . Center on Children, Families and the Law



The University of Nebraska–Lincoln has launched the Quality Improvement Center for Workforce Development with a five-year, \$15 million grant to the Center on Children, Families and the Law from the U.S. Department of Health and Human Services Administration for Children and Families-Children's Bureau. Under the leadership of Michelle Graef,

research associate professor in the Center on Children, Families and the Law, this multidisciplinary project studies and tests promising strategies to help child welfare agencies recruit and retain staff workers. Nebraska collaborates with three national child welfare consultants and researchers at the University of Colorado, Denver; University of Louisville; and University of Tennessee, Knoxville. The center draws on a range of expertise, including social work, industrial organizational psychology, human resource management, educational psychology, implementation science and the law.

#### Heng-Moss, Tiffany

#### College of Agricultural Sciences and Natural Resources



With grants totaling more than \$47,000,000, the College of Agricultural Sciences and Natural Resources (CASNR) at the University of Nebraska–Lincoln is partnering with various associations and foundations to provide educational opportunities for Rwandan students to participate in the Undergraduate Scholars Program (CUSP). In support of a

Practical Agriculture Institute in Rwanda, Rwandan students are identified and selected to participate in CUSP to pursue a Bachelor of Science degree in Integrated Science – an individualized program of study focused on conservation agriculture, entrepreneurship, leadership and innovative thinking. The students' degree programs are specifically designed to be relevant to Rwandan agricultural production and the country's goal of building resilience into its agricultural ecosystems. CASNR interim dean Tiffany Heng-Moss leads this effort.

#### Lewis, Jim

#### Mathematics/Center for Science, Mathematics and Computer Education

and Computer Education

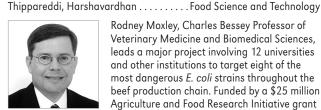


A grant from The Sherwood Foundation® and the Lozier Foundation supports a three-year partnership between Omaha Public Schools and Nebraska's Center for Science, Mathematics and Computer Education to fund the NebraskaMATH Omaha Public Schools Teacher Leader Academy. Led by Jim Lewis, Douglas Professor of Mathematics, the

program gives a community of OPS mathematics teachers from grades K-12 access to continuing education and graduate coursework centered on math education. The goals of the OPS initiative are to strengthen mathematics learning in Omaha classrooms, narrow student achievement gaps between different populations and conduct research that continues to inform school improvement efforts.

#### Moxley, Rodney **Veterinary Medicine and Biomedical Sciences**

Shiga-Toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach \$24,808,592 ..... USDA-AFRI 1/1/12 - 12/31/18



Rodney Moxley, Charles Bessey Professor of Veterinary Medicine and Biomedical Sciences, leads a major project involving 12 universities and other institutions to target eight of the most dangerous E. coli strains throughout the beef production chain. Funded by a \$25 million Agriculture and Food Research Initiative grant from the U.S. Department of Agriculture's

National Institute of Food and Agriculture, the project's long-term goal is to reduce the occurrence and public health risks from Shiga toxin-producing E. coli in beef, while preserving an economically viable and sustainable beef industry. The project explores the public health, economic and environmental impacts of existing or new intervention strategies on predicted and actual STEC exposure risk. Innovative education, extension and evaluation efforts are intertwined with research on beef chain STEC risk mitigation and decreased numbers of human STEC cases.

#### Rilett. Laurence

#### Civil Engineering/ **Nebraska Transportation Center**

University Transportation Centers Open Competition 2016 12/5/16 - 9/30/22



The Mid-America Transportation Center, a consortium of academic institutions led by the University of Nebraska-Lincoln, leads a five-year, \$13 million research center, funded by the U.S. Department of Transportation through the Fixing America's Surface Transportation Act, to improve transportation safety in Nebraska and neighboring states. The center,

which emphasizes challenges facing rural areas and underserved communities, was designated the University Transportation Center of

its four-state region after a competitive review. Laurence Rilett, MATC director and the Keith W. Klaasmeyer Chair in Engineering, leads the new research center. Funding enables MATC to leverage its track record of success in transportation research and education to improve safety in the four Region 7 states: Nebraska, Iowa, Kansas and Missouri, MATC is housed in the university's College of Engineering. Its partner institutions include the University of Nebraska at Omaha, University of Nebraska Medical Center, University of Iowa, University of Kansas, University of Kansas Medical Center, Missouri University of Science and Technology, Lincoln University and Nebraska Indian Community College. The consortium also has partnerships with several private- and public-sector entities, including a longstanding relationship with the Nebraska Department of Transportation

#### Schachtman, Daniel

#### Agronomy and Horticulture/ Center for Plant Science Innovation/ **Center for Biotechnology**

Systems Analysis of the Physiological and Molecular Mechanisms of Sorghum Nitrogen Use Efficiency, Water Use Efficiency and Interactions with the Soil Microbiome

\$13.460.684 . . . . . . DOE 8/15/15 - 8/31/20 Dweikat, Ismail ......Center for Plant Science Innovation/ Agronomy and Horticulture Ge, Yufeng..... Biological Systems Engineering



Daniel Schachtman, professor of agronomy and horticulture and director of the university's Center for Biotechnology, leads a \$13.5 million, multi-institutional research effort to improve sorghum as a sustainable source for biofuel production. A five-year grant from the U.S. Department of Energy funds this highly collaborative project that takes a

comprehensive approach to understanding how plants and microbes interact and to learn which sorghum germplasm can grow with less water and nitrogen. The University of Nebraska-Lincoln is collaborating with scientists at Danforth Plant Science Center, Washington State University; University of North Carolina-Chapel Hill; Boyce Thompson Institute, Clemson University; Iowa State University; Colorado State University and the DOE-Joint Genome Institute.

#### Takacs, James

## Chemistry/Nebraska Center for Integrated Biomolecular Communication

Nebraska Center for Integrated Biomolecular Communication (NCIBC)

(INCI	BC)
\$11,271,372	NIH-NIGMS
8/15/16 - 7/31/21	
Becker, Donald	Biochemistry/NCIBC
Buan Murphy, Nicole	
Cerny, Ronald	
Clarke, Jennifer Statistics/Foo	
DiRusso, Concetta	
Dodds, Eric	
Hage, David	
Harris, Edward	
Kidambi, Srivatsan Chemical and	Biomolecular Engineering/NCIBC
Lee, Jaekwon	Biochemistry/NCIBC
Morton, Martha	
Powers, Robert	
Riethoven, Jean-Jack	Center for Biotechnology/ NCIBC
Stains, Clifford	Chemistry/NCIBC
Velander, WilliamChemical and	Biomolecular Engineering/NCIBC
Zhou, You	.Center for Biotechnology/NCIBC



With a five-year, \$11.3 million grant from the National Institutes of Health, the University of Nebraska–Lincoln has established a research center focused on investigating cellular-level miscommunications that contribute to complex diseases like cancer, diabetes and chronic liver disease. The NCIBC serves as a hub for interdisciplinary collaborations among

Nebraska's biomedical researchers and involves faculty at the University of Nebraska Medical Center, as well. The center, directed by James Takacs, Charles J. Mach University Professor of Chemistry, fosters a systems approach, combining the research activities of chemists, biochemists, engineers and bioinformaticists. It connects researchers developing new molecular probes and analytical techniques with those unraveling molecular mechanisms of diseases.

## Tsymbal, Evgeny

#### /Physics and Astronomy Nebraska Center for Materials and Nanoscience

Center for NanoFerroic Devices \$7,285,500 . . . . . DOC-NIST through Semiconductor Research Corp.-Nanoelectronics Research Corp.

4/1/13 - 12/31/17



The University of Nebraska leads a \$7.285 million research collaboration involving six universities and an industry consortium to develop a new generation of electronic devices. Semiconductor Research Corp. and the National Institute of Standards and Technology have awarded a university physics team a five-year contract to lead the Center for

NanoFerroic Devices as part of the Nanoelectronics Research Initiative. The center is harnessing the significant advances the university and its Materials Research Science and Engineering Center (MRSEC) have made in exploring nanomaterials with unique properties that may prove the key to surpassing the limitations of current technology. Evgeny Tsymbal, George Holmes University Professor of Physics and MRSEC director, co-directs the Center for NanoFerroic Devices with physicist Peter Dowben. The university is partnering with researchers at the University of California, Irvine, University of Wisconsin-Madison, University at Buffalo, SUNY, University of Delaware and Oakland University. This joint research will help transform basic university discoveries and knowledge into actual devices, in collaboration with industry.

Materials Research Science & Engineering Center: Polarization and Spin

The Materials Research Science and Engineering Center (MRSEC) was established in 2002 with a grant from the National Science Foundation and involves scientists from the Departments of Physics and Astronomy, Chemistry, Mechanical & Materials 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.

#### Walia, Harkamal

#### **Agronomy and Horticulture**

*RII Track-2 FEC: Comparative Genomics and Phenomics Approach
to Discover Genes Underlying Heat Stress Resilience in Cereals
\$5,783,738 NSF-EPSCoR
8/1/17 - 7/31/21
Morota, Gota Animal Science
Obata, ToshihiroBiochemistry
Yu, HongfengComputer Science and Engineering
Zhang, ChiBiological Sciences
Zhang, Qi



Harkamal Walia, associate professor of agronomy and horticulture, leads a project to explore the effects of high nighttime temperatures on wheat and rice. Temperature stress can lead to severe losses in the yield and quality of crops, especially wheat and rice, two major cereal crops worldwide. With the support of a \$5.78 million grant from the

National Science Foundation's Established Program to Stimulate Competitive Research (EPSCoR), Walia's team is investigating genes and genetic variants in wheat and rice to identify genetic markers and physiological characteristics tied to heat tolerance. The team will also collaborate with researchers from Arkansas State University and Kansas State University.

#### Wilhelm, Bob Office of Research and Economic Development

Nebraska Center for Energy Sciences Research \$6,250,000......Nebraska Public Power District 4/1/16 – 3/31/21

The Nebraska Center for Energy Sciences Research is a collaboration between the university and the Nebraska Public Power District. The center was established in April 2006 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 Nebraska 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.

#### Wood, Charles

## Biological Sciences/ Nebraska Center for Virology

Nebraska Center for Virology



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: the University of Nebraska– Lincoln, 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.

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

### Yoder, Ron Institute of Agriculture and Natural Resources

*Rwandan Institute of Conservation Agriculture (RICA)
\$17,210,366 Various Sources
10/13/17 - 12/31/20
Davis, Josh Global Engagement
Heng-Moss, Tiffany College of Agricultural Sciences
and Natural Resources



The Rwanda Institute for Conservation Agriculture (RICA) is a unique and innovative English language institution dedicated to preparing the next generation of agricultural leaders of Rwanda and East Africa. Under the leadership of Ron Yoder, senior associate vice chancellor for IANR, the University of Nebraska is serving as a critical academic

partner, helping to design and implement the curriculum and campus operations, especially during RICA's critical start-up phase. RICA students will learn the principles of conservation agriculture and One Health while emphasizing written communication, leadership and entrepreneurship. Students at RICA will be exposed to six different enterprises including beef cattle and small ruminants, dairy, poultry and swine, row and forage crops, vegetable and tree crops, irrigation and mechanization.

#### Zempleni, Janos

#### **Nutrition and Health Sciences**

COBRE: Nebraska Center for the Prevention of



With the support of an \$11.3 million grant from the National Institutes of Health's Center of Biomedical Research Excellence (COBRE) program, the university has established the Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules. The center, under the leadership of Janos Zempleni. Willa Cather Professor of Molecular

Nutrition, focuses on understanding nutrition and obesity at the molecular level. Answering molecular-level questions regarding obesity and related diseases is a crucial first step toward curbing this national epidemic. The University of Nebraska Medical Center collaborates on the center, which aims to establish a community of nationally recognized researchers in nutrition, genetics, biochemistry, food science, immunology and computer science. The long-term goal is to become a leader in nutrient signaling and the prevention of obesity and obesity-related diseases, including non-alcoholic fatty liver disease, cardiovascular disease and Type 2 diabetes.

# **Awards of \$1 Million to \$4,999,999**Active awards, July 1, 2017–June 30, 2018

<sup>\*</sup> Indicates new in 2017–2018

Allen, Craig  *NRT-INFEWS: Training in Theory and Application o Resilience in Agriculturally Dominated Social Ecolog \$2,998,886  Elbaum, Sebastian	gical SystemsNSF and Engineering ems Engineering lic Policy Center
Allmand, Matthew Extension/Biological System	
Manufacturing Extension Partnership Center for \$2,043,164	and Technology Nebraska DOC-NIST
Balkir, Sina Electrical and Compu-	
Remote Radiation Monitoring Sensor Electron	
\$1,385,150 Electrical and Compu	
Hoffman, Michael Electrical and Compu	
	al Education and eation Disorders
Somatosensory Modulation of Salivary Gene Ex	pression
and Oral Feeding in Preterm Infants \$2,797,503	NIH-NICHD
Becker, Donald	Biochemistry/
<b>Nebraska Center fo</b> Redox Biology Center	Ir Redox Biology
\$4,305,466	NIH-NIGMS
Molecular Mechanisms of Disease	
\$1,093,432 Black, Paul	
	raduate Studies
TRIO – Ronald E. McNair Postbaccalaureate Achieve \$1,161,325	

Bevins, Rick Psychology *Interoceptive Conditioning with Nicotine: Changes in Abuse Liability \$1,786,220 DHHS-NIDA		
Pharmacological Interventions to Diminish Nicotine-Associated Responding \$1,429,752		
Bilder, Christopher  Group Testing for Infectious Disease Detection:  Multiplex Assays and Back-End Screening \$1,137,836		
Bloom, Kenneth Experimental Particle Physics at the Energy and Cosmic Frontiers \$2,055,000		
Swanson, David		
Prediction through Peridynamics \$1,003,134 DoD-AFOSR through University of Arizona		
Bockelman, Brian Computer Science and Engineering  SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP)  \$1,001,324		
Boeckner, Linda  Innovation and Collaboration: Creating a Transdisciplinary Childhood Obesity Prevention Graduate Program \$1,450,389		
De Guzman, Maria		

Cahoon, Edgar Biochemistry	
Center for Plant Science Innovation	
Biochemical Genomics:	through the Lens of Current Biomedical Research
Deciphering the Chemical Factories of Oilseeds	\$1,386,925
\$1,315,031	
Center for Plant Science Innovation	
Contain 101 Figure Colonica Illinovation	Wood, Charles Biological Sciences/
Ciobanu, Daniel Animal Scienc	
Translational Genomics for Improving	Dambuawaki Wala
Sow Reproductive Longevity	Dombrowski, Kirk Sociology
\$1,166,650 USDA-AFR Kachman, Stephen Statistic	
Riethoven, Jean-Jack	
Spangler, Matthew	
	Swearer, SusanEducational Psychology
Clemente, Thomas Agronomy and Horticulture	1
Center for Plant Science Innovation	Injection Risk Networks in Rural Puerto Rico \$3,211,865
*Center for Advanced Bioenergy and Bioproducts Innovation	Khan Rilal Sociology
\$3,886,388	n   · · · ·
University of Illinois-Urbana-Champaig Cahoon, Edgar	Dowben, Peter Physics and Astronomy/Nebraska
Center for Plant Science Innovation	
Contain 101 Thank Colonic Hilliotation	*E2CDA: Type I: Antiferromagnetic Magneto-electric
Daly, Ed Educational Psychology	Memory and Logic
Nebraska Center for Research o	\$3,5/3,423 NSF/Semiconductor Research Corp
Children, Youth, Families and School	Binek, Christian
School Psychology Specialization in Toddlers	Sinitskii, Alexander
with Autism Spectrum Disorders	Center for Materials and Nanoscience
\$1,249,730EI	Tsymbal, Evgeny
Detweiler Cerrick Computer Colones and Engineerin	Center for Materials and Nanoscience
Detweiler, Carrick Computer Science and Engineerin  NRI: Enabling Unmanned Aerial Systems (UAS) Fire Ignitions	
in Complex Firefighting Contexts	Duppong Hurley, Kristin Special Education and
\$1,003,270NS	Communication Disorders
Allen, CraigNatural Resource	for Parents of Middle School Youth with Emotional Disturbance
Bradley, Justin	9
Duncan, Brittany	Torkelson-Trout Alexandra Special Education and
Twidwell, Dirac Jr	
,	
	Dzenis, Yuris Mechanical & Materials Engineering
	Optimal Stent Selection for the Femoropopliteal Artery \$1,028,824 NIH-NHLBI through UNMC
	Desyatova, Anastasia Mechanical & Materials Engineering
	Despatova, / titustasia ivicentameat & iviaterials Engineering

Engen-Wedin, Nancy Teaching, Learning and Teacher Education	Gaussoin, Roch Agronomy and Horticulture
Indigenous Roots Teacher Education Program	ConAgra Popcorn Breeding Maintenance
\$1,174,067ED	\$1,695,945 ConAgra
	McAndrew, Thomas Agronomy and Horticulture
Erixson, John Nebraska State Forest Service	Rodriguez, Oscar Agronomy and Horticulture
	3 ,
Cooperative Forestry Program	Guo, Jiantao Chemistry
\$2,692,741 USDA-FS	
	Improve the Safety of an Efficacious Live-Attenuated
Farritor, Shane Mechanical & Materials Engineering	HIV-1 Vaccine through Unnatural Amino Acid-Mediated Suppression
Robotic Tele-Surgery Research	of Blank Codon
\$2,084,873	\$1,919,552NIH-NIAID
Nelson, Carl	Li, Qingsheng Biological Sciences
Terry, Benjamin Mechanical & Materials Engineering	Niu, Wei Chemistry
Terry, benjamin Mechanical & Materials Engineering	,
	Curotaky John Agronomy and Harticultura
Fischer, Jean Nutrition and Health Sciences	Guretzky, John Agronomy and Horticulture
Supplemental Nutrition Assistance Program (SNAP-ED)	Agro-Ecosystem Approach to Sustainable Biofuels Production
\$1,703,849	\$1,916,143USDA-NIFA through Iowa State University
Nebraska Department of Health and Human Services	Baxendale, FredEntomology
Behrends, Donna Nutrition and Health Sciences	Glewen, Keith Southeast Research and Extension Center
Boeckner, Linda	Hay, Francis Biological Systems Engineering
Hartline, Morgan Nutrition and Health Sciences	Heng-Moss, Tiffany Entomology
Sehi, Natalie Nutrition and Health Sciences	James, Theresa Agronomy and Horticulture
Seni, Natalie	Namuth Covert, Deana Agronomy and Horticulture
	Perrin, Richard Agricultural Economics
Fontaine, Joseph Natural Resources	Waters, Brian Agronomy and Horticulture
Assessing the Effects of Habitat Incentive Programs and	Wegulo, Stephen
Public Access Programs on Pheasant Population	Yuen, Gary
Dynamics and Hunter Harvest	ruen, Gary lant rathology
\$1,989,522Nebraska Game and Parks Commission	
Damsky, David Natural Resources	Hage, David Chemistry
Foggia, Jennifer Natural Resources	Chromatographic Studies of Functional Proteomics
Reed, Tyler	\$1,075,264 NIH-NIDDK
Reed, Tyler	
Use and Satisfaction of Public Hunting Opportunities	Harris, Edward Biochemistry
\$1,938,757DOI-GS through	
	Liver-Mediated Clearance of Low Molecular Weight Heparins
Nebraska Game and Parks Commission	\$1,464,325 NIH-NHLBI
Martin, DustinNatural Resources	Dodds, Eric
Forbes, Cory Natural Resources	Harwood, David Earth and Atmospheric Sciences/
DRK-12 High School Students Climate Literacy	Antarctic Drilling Program
through Epistemology of Scientific Modeling	SALSA Project Hot Water Drill Operations with
\$1,136,6002NSF	WISSARD Main Drill and Parts of UNL Roving Drill (Prime Mover)
, , ,	\$1,333,019 NSF through Dartmouth College
Coroio Duiz Hornon Dignt Datheland	McManis, James
Garcia Ruiz, Hernan Plant Pathology/	Welvianis, James
Nebraska Center for Virology	
Recognition and Recruitment of RNA Viruses	
into RNA Silencing Pathways	

Hove Michael	Notural Decourage	Huang lineang	Machanical C Matariala Enginearing
Hayes, Michael	Natural Resources	Huang, Jinsong	Mechanical & Materials Engineering
Providing Drought Information Services			nt Perovskite/Silicon Tandem Devices
The National Drought Mitigatio		\$1,211,076	DOE
\$2,443,222	DOC-NOAA		
Bathke, Deborah Earth and		High-efficiency Low-cos	st Nanocomposite for Radiation Detection
Fuchs, Brian	Natural Resources	Enabled by Charge-	Triggered Secondary Charge Injection
Knutson, Cody			
Svoboda, Mark			
Tadesse, Tsegaye		lumak Ouat	Dialogical Ovetema Engineering
radooo, roogayo	ratarar nobbar 666	Irmak, Suat	Biological Systems Engineering
Hain Oams Baatan	of Diout Hoolsh Duouses	Measurement	t of Growing Season Actual Crop
	of Plant Health Program		and Crop Coefficients, and Dormant
A Predictive Model to Increase Ado			ve Losses for Key Vegetation Surfaces
of a Mite-Virus Disease Complex			Platte Natural Resources District
\$3,375,000			Central Platte NRD
Anderson-Knott, Mindy		Kilic, Ayse	Civil Engineering/Natural Resources
Bradshaw, Jeffrey Panhandle Research	ch and Extension Center	Martin, Derrel	Biological Systems Engineering
Golick, Douglas	Entomology	van Donk, Simon	Biological Systems Engineering
Wegulo, Stephen	Plant Pathology	Verma, Shashi	Natural Resources
Zygielbaum, Arthur		,	
,		Johnson, Matthew	Psychology/
Helikar, Tomas	Biochemistry	Juliisuli, Marillew	Center for Brain, Biology and Behavior
	-	DUT LOSSO N	
A Predictive Multi-scale Model of the Ir			al Networks Underlying the Integration
An Integrated Resource for Interdisciplin		of Kn	owledge and Perception
\$1,780,567	NIH-NIGMS	\$1,187,503	NSF through University of Delaware
		Dodd, Michael	Psychology/
An Innovative Computational Modelin			Center for Brain, Biology and Behavior
to Facilitate Learning of Biolog			
Simulation and Dynamical Systems		Johnson, Scott	Biological Process Development Facility
\$2,321,012			Research, Development and
Brassil, Chad	Biological Sciences		acturing of 5P12 RANTES
Dauer, Joseph	Natural Resources		Mintaka Foundation for Medical Research
Harris, Steven			Biological Process Development Facility
	63	buchnoiz, wallace	biological Process Development Facility
Hibberd, Chuck	Extension/		
	cal Assistance Program	Khalimonchuk, Oleh	Biochemistry
			chondrial Quality Control and Protection
Nebraska Local Technical Assistance P	rogram FY 2016	\$1,421,695	NIH-NIGMS
\$1,118,920	DOI-FHVVA through		
Nebraska Depart	tment of Transportation	Knoche, Lisa	Nebraska Center for Research on
		Kiloolic, Llou	Children, Youth, Families and Schools
Houston, Adam Earth and	l Atmospheric Sciences	Catting Bandy 0.2 (	GR03): Supporting the Development of
RII Track-2 FEC: Unmanned Aircra	aft System		
for Atmospheric Physics			hrough an Integrated Parent-Teacher
\$1,454,757	ahoma State University	Kelati	ionship-Based Approach
Detweiler, Carrick Computer S		\$1,998,928	DHHS-ACF
Pytlik Zillig, Lisa		Hawley, Leslie	Nebraska Center for Research on
Van Den Broeke, Matthew Earth and			Children, Youth, Families and Schools
van Den broeke, watthew Earth and	a Authospheric Sciences		

Marvin, Christine  Communication Disorders/ Nebraska Center for Research on Children, Youth, Families and Schools Raikes, Helen  Children, Youth and Family Studies/ Nebraska Center for Research on Children, Youth, Families and Schools Sheridan, Susan  Children, Youth, Families and Schools Children, Youth, Families and Schools	MacDonald, James  *Enhancing Animal Protein through Crops and Cattle \$1,000,000 Foundation for Food and Agriculture Research Awada, Tala Natural Resources Banerjee, Simanti Agricultural Economics Blanco, Humberto Agronomy and Horticulture Drewnoski, Mary Animal Science Erickson, Galen Animal Science Okalebo, Jane Natural Resources Parsons, Jay Agricultural Economics
Kravchenko, Ilya Physics and Astronomy Particle Physics Research with the CMS Experiment at the LHC	Redfearn, Daren Agronomy and Horticulture Suyker, Andy
\$2,070,000	Meiklejohn, Colin  *Investigating the Special Role of Sex Chromosomes in Speciation: Discovering the Molecular Identities, Functions, and Evolutionary Histories of X-Linked Hybrid Male Sterility Genes in Drosophila \$1,298,165
\$1,468,032NIH-NIMH	Mendoza-Gorham, Joan Student Affairs Lincoln Upward Bound
Li, Xu  Mitigating the Risk of Antibiotic Resistance at Critical Control Points in the Beef Cattle Manure Management Systems \$1,200,000	\$1,358,634
North Central Risk Management Education Center \$3,253,008	

Note Meital Paughalanul	Daine Audurai Ohamistuu
Neta, Maital Psychology/ Center for Brain, Biology and Behavior	Rajca, Andrzej  *New Nitroxide Spin Labels for Distance
*Functional Brain Networks Mediating	Measurements in Biological Systems
Individual Differences in Valence Bias	\$1,745,253DHHS-NIGMS
\$1,781,034DHHS-NIMH	Rajca, Suchada
Ober Mitation On the Description of the Description	Synthesis of Metal-Free Magnetic
Olson, Kristin Sociology/Gallup Research Center	Resonance Imaging Contrast Agents
Reducing Error in Computer Survey Data Collection \$3,484,525NSF	\$1,208,299 NIH-NIBIB
Belli, Robert	Rajca, Suchada Chemistry
Smyth, Jolene Sociology/Gallup Research Center	
Soh, Leen-Kiat	Ray, Chittaranjan Civil Engineering/Water Center/
	Robert B. Daugherty Water for Food Institute
Pannier, Angie Biological Systems Engineering	*Securing Water for and from Agriculture through Effective
*Using Cell Priming and Telecommunications Modeling to	Community and Stakeholder Engagement
Enhance Gene Delivery for Stem Cell Therapies (DP2)	\$1,040,893
\$2,197,500 DHHS-NIBIB	Pennsylvania State University Burbach, Mark Natural Resources/
Pegg, Mark Natural Resources	Robert B. Daugherty Water for Food Institute
Pegg, Mark Natural Resources Missouri River Sportfish Ecology and Management	Fulginiti, Lilyan Agricultural Economics/
\$1,324,787 Nebraska Game and Parks Commission	Robert B. Daugherty Water for Food Institute
Hamel, Martin	Groskopf, Jessica Panhandle Research and Extension Center/
	Robert B. Daugherty Water for Food Institute Perrin, Richard
Pérez, Lance Academic Affairs	Robert B. Daugherty Water for Food Institute
WIDER: Adopting Research-Based Instructional Strategies	Rudnick, Daran West Central Research and Extension Center/
for Enhancing STEM Education	Robert B. Daugherty Water for Food Institute
\$1,990,279NSF Arthurs, Leilani Earth and Atmospheric Studies	
Couch, Brian	Reddy, N.R. Jayagopala Veterinary Medicine and
Golick, Douglas Entomology	Biomedical Sciences
Heaton, RuthTeaching, Learning and Teacher Education	Autoimmunity in the Mediation of Infectious Myocarditis
Lee, Kevin	\$1,365,031
Computer Education/Physics and Astronomy Spiegel, AmyEducational Psychology	Steffen, DavidVeterinary Medicine and Biomedical Sciences
Stains, Marilyne Chemistry	, ,
	Reid, John Mechanical & Materials Engineering
Pickard, Gary Veterinary Medicine and	Midwest States Regional Pooled Fund Program
Biomedical Sciences	\$1,154,970 Nebraska Department of Transportation
Homeostatic Regulation	Bielenberg, Robert
of Peripheral Oscillators via Autonomic Circuitry	Faller, RonaldMidwest Roadside Safety Facility
\$1,761,617	
Sollars, PatriciaVeterinary Medicine and Biomedical Sciences	
Pope, Kevin Natural Resources	
Human Dimensions of Nebraska's Fisheries	
\$2.10F.22C	

Facility T \$3,706,933	Civil Engineering/ Nebraska Transportation Genter ming Elements for Entry Control Threat Delay and Containment National Strategic Research Institute Civil Engineering/ Nebraska Transportation CenterMechanical & Materials Engineering/ Nebraska Transportation Center
\$3,171,651	structure - Visualizations & ITS Laboratory DOT-FHWA through Nebraska Department of Transportation Engineering/Midwest Roadside Safety Facility
\$1,262,880	th University of Texas Pan American DOT-FHWA through University of Texas-Pan-American Civil Engineering
Robertson, Vaughn Jr. UNL \$2,291,400	Student Affairs Educational Talent Search
\$1,082,718	Special Education and Communication Disorders al Upgrade Partnership - Sensory Disabilities
	Physics and Astronomy/Nebrocks
\$3,494,096	Physics and Astronomy/Nebraska Center for Materials and Nanoscience  a Nanoscale Facility of NNCI

Liou, Sy-Hwang ......Physics and Astronomy/Nebraska

Shield, Jeffrey . . . . . . . . . . . Mechanical & Materials Engineering/

Studies of Artificially Structured Composite Magnets 

Materials and Nanoscience

Center for Materials and Nanoscience

Nebraska Center for Materials and Nanoscience

Sheridan, Susan	Educational Psychology/ Nebraska Genter for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute
Early Learning Context	s in Rural and Urban Nebraska
\$4,499,878	
DeKraai, Mark	Buffett Early Childhood Institute
Iruka Thompson, Iheoma	Buffett Early Childhood Institute Buffett Early Childhood Institute/ Nebraska Center for Research on
Knoche, Lisa	Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute
with Latino Studi \$3,499,987	oint Behavioral Consultation (CBC) ents: A Replication Study
Witte, Amanda	Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools
	ning Network Lead
\$1,999,987	ED Nebraska Center for Research on Children, Youth, Families and Schools
Supporting Parental Eng	ting Ready Intervention at agement and Positive Outcomes Idren at Educational Risk
\$3,212,919 Bovaird, James	
	Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools
Knoche Lisa	d, Youth and Family Studies/Psychology Nebraska Center for Research on Children, Youth, Families and Schools
Marvin, Christine	Special Education and Communication Disorders

Smith, Wendy	Mathematics/Center for Science,	Shadwick, Bradley
N. 1	Mathematics and Computer Education	Uiterwaal, Cornelis
	raska Partnership TEAMS Achievement in Mathematics and Science)	Umstadter, Donald
\$1,068,400 ED	Othrough Nebraska Department of EducationCenter for Science, Mathematics and Computer Education/	Dynamics of \$2,565,804
	Earth and Atmospheric Sciences	
Homp, Michelle	Teaching, Learning and Teacher Education Center for Science, Mathematics and Computer Education	Storz, Jay  *RII Track-2 FEC: Using I and Lead (UNVEIL): A
Lai, Yvonne	Center for Science, Mathematics and Computer Education/Mathematics	Advance Genome-to \$1,856,000
Males, Lorraine	Teaching, Learning and Teacher Education Teaching, Learning and Teacher Education Center for Science, Mathematics	Meiklejohn, Colin
	and Computer Education/ Earth and Atmospheric Sciences	Mutational F Adaptive Evolu
	Teaching, Learning and Teacher Education Center for Science, Mathematics and Computer Education/	\$1,386,044 Bid
	Teaching, Learning and Teacher Education	Svoboda, Mark
Nebraska NO	DYCE: NSF Mathematics Teaching	Developme
	ter Teaching Fellows Program	Drough \$1,025,440
	NSF	Int
	Teaching, Learning and Teacher Education	Knutson, Cody
Kauttman, Douglas	Educational Psychology	Neale, Christopher Ro
гаріск, іга	Mathematics/Center for Science, Mathematics and Computer Education	Wardlow, Brian
Swidler, Stephen	Teaching, Learning and Teacher Education	Wilhite, Donald
Stains, Clifford	Chemistry	Swanson, David
Chemical	Approaches for Interrogating nental Biomedical Processes	Open Sc \$1,790,999 NSF
\$1,610,142	NIH-NIGMS	Takacs, James
Starace, Anthony	Physics and Astronomy	Catalytic A Uncapping the Potent
of Atoms, I	d Controlling Ultrafast Dynamics Molecules, and Nanostructures	\$1,232,002
\$2,451,966	NSF-EPSCoR	Tamavol Ali

Dynamics of Few-Body Atomic Processes \$2,565,804
*RII Track-2 FEC: Using Natural Variation to Educate, Innovate, and Lead (UNVEIL): A Collaborative Research Network to Advance Genome-to-Phenome Connections in the Wild \$1,856,000
Mutational Pleiotropy, Epistasis, and the Adaptive Evolution of Hemoglobin Function \$1,386,044 NIH-NHLBI Moriyama, Hideaki Biological Sciences/Center for Biotechnology
Svoboda, Mark  Development of the MENA Regional Drought Management System  \$1,025,440
Development of the MENA Regional Drought Management System  \$1,025,440
Development of the MENA Regional Drought Management System  \$1,025,440

Batelaan, Herman ... Physics and Astronomy
Centurion, Martin ... Physics and Astronomy
Fabrikant, Ilya ... Physics and Astronomy
Fuchs, Matthias ... Physics and Astronomy
Gay, Timothy ... Physics and Astronomy
Lu, Yongfeng ... Electrical and Computer Engineering
Schubert, Eva ... Electrical and Computer Engineering

Terry, Benjamin	Mechanical & Materials Engineering	Torkelson-Trout, Alexandra	Special Education and
	te Care for Acute Respiratory		Communication Disorders/
	Syndrome (ARDS) Maturation		ademy for Child and Family Wellbeing
\$1,215,434D0	OD-Offutt Air Force Base-STRATCOM through		o a Better Tomorrow:
	National Strategic Research Institute	with High Inc	racy in Transition-Age Youth idence Disabilities
Thomas, Amanda	Teaching, Learning and Teacher Education/	\$1,499,994	ED
	Nebraska Center for Research on	Duppong Hurley, Kristin	Special Education and
	Children, Youth, Families and Schools		Communication Disorders/
*Nebraska STEM: Supr	porting Elementary Rural Teacher Leadership		ademy for Child and Family Wellbeing
	NSF	Lambert, Matthew	Special Education and
	Natural Resources/		Communication Disorders/
	Nebraska Center for Research on	Acc	ademy for Child and Family Wellbeing
	Children, Youth, Families and Schools		
Homp, Michelle	Center for Science, Mathematics and		omes in Youth with LD and EBD:
,	Computer Education/		d Replication Study
	Nebraska Center for Research on		ome Aftercare Intervention
	Children, Youth, Families and Schools		ED-IES
Nugent, Gwen	Nebraska Center for Research on	Duppong Hurley, Kristin	Special Education and
J ,	Children, Youth, Families and Schools		Communication Disorders
Scharmann, Lawrence	Teaching, Learning and Teacher Education/		
	Nebraska Center for Research on	Umphlett, Natalie	Natural Resources
	Children, Youth, Families and Schools	High Plains Reg	ional Climate Center
Smith, Wendy	Center for Science, Mathematics and		DOC-NOAA
	Computer Education/	Sorensen, William	Natural Resources
	Nebraska Center for Research on	Stiles, Crystal	Natural Resources
	Children, Youth, Families and Schools		
Soh, Leen-Kiat	Computer Science and Engineering/	Umstadter, Donald	Physics and Astronomy
	Nebraska Center for Research on		eractions of Electrons with
	Children, Youth, Families and Schools		ly Relativistic Intensities
Thomas, Julie	Teaching, Learning and Teacher Education/		DoD-AFOSR
	Nebraska Center for Research on		Physics and Astronomy
	Children, Youth, Families and Schools		Physics and Astronomy
Trainin, Guy	Teaching, Learning and Teacher Education/		Physics and Astronomy
	Nebraska Center for Research on		Physics and Astronomy
	Children, Youth, Families and Schools		Physics and Astronomy
wei, Sally			
	Nebraska Center for Research on		oherent X-Ray Sources
	Children, Youth, Families and Schools		DOE

Van	Etten, J	lames

## Plant Pathology/ Nebraska Center for Virology

\*RII Track-2 FEC: G2P in VOM:

	Analytical Framework for
Genome to Phenome Conne	ections in Viruses of Microbes
\$1,192,224	NSF through University of Delaware
DeLong, John	Biological Sciences
	Nebraska Center for Virology
Dunigan, David	Plant Pathology/
	Nebraska Center for Virology

Nebraska Center for Virology
Viesca, KaraTeaching, Learning and Teacher EducationInternational Consortium for Multilingual Excellence in Education\$2,739,661
Walia, Harkamal Agronomy and Horticulture
Physiological and Genetic Mechanisms Underlying Salt Tolerance in
Rice across Developmental Stages
\$2,035,509NSF
Lorenz, Aaron Agronomy and Horticulture
Samal, Ashok
Wang, Dong Computer Science and Engineering
Wardlow, Brian Natural Resources
The Quick Drought Response Index (QuickDRI): An Integrated Approach to Maximizing the Use of NASA Data Sets
for Rapid Response Drought Monitoring
\$1,150,701NASA
Fuchs, Brian
Hayes, Michael
Svoboda, MarkNatural Resources

# West, John Nebraska Center for Virology \*KSHV HIV and the Kanasi's Sarroma Tumor Niche

*KSHV, HIV and the Kapa	osi's Sarcoma Tumor Niche
\$2,793,519	DHHS-NCI
Wood, Charles	Biological Sciences/Biochemistry/
	Nebraska Center for Virology

Whitbeck, Les	Sociology
A RCT of a Family-Centered Oilbwe Substance	e Abuse Prevention

A NCT of a running-Centered Offibwe Substance Abuse Fre	evention
\$3,560,784	NIH-NIDA
Crawford, Devan	. Sociology

# Wiebe, Matthew

# Veterinary Medicine and Biomedical Sciences

Mechanism of the Antiviral Activity of BAF against Poxvirus and HSV-1 Infection \$1,838,387	
Williams, Robert Mechanical & Materials Engineering Nebraska Industrial Assessment Center (NIAC) \$1,439,589	
Wood, Charles Biological Sciences/Biochemistry, Nebraska Center for Virology *Zambia AIDS Malignancies Diagnosis and Pathogenesis Program \$3,842,954 DHHS-NCI Angeletti, Peter Biological Sciences/ Nebraska Center for Virology West, John Nebraska Center for Virology	
*The Impact of Cannabis on Inflammation and HIV-1 Reservoirs in Zambia \$3,447,340	
AIDS Malignancies Training and Research International Program (AMTRIP) \$1,482,515	
Cancer Research International Training and Intervention Consortium (CRITIC)  \$3,720,850	
Neuropathogenesis and Neuroinvasiveness of Subtype C Human Immunodeficiency Virus-1 \$1,712,314DHHS-NINDS	
Programs in HIV & AIDS Assoc Diseases/Malignancies \$2,713,284	

Yamamoto, Catherine	Student Affairs
	ent Support Services ProgramED
\$2,323,001	
Zempleni, Janos	Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules
Molecular Signatur	es of New Bioactive Compounds in Humans: Cows Milk MicroRNAs
\$1,785,715	USDA-NIFA
Adamec, Jiri	
Cui, Juan	Computer Science and Engineering/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules

# Awards of \$250,000 to \$999,999

Active awards, July 1, 2017–June 30, 2018

Adamowicz, Michael	College of Agricultural Sciences and Natural Resources
*The Human Virome as Trace Ev \$698,382	idence in Forensic InvestigationDOJ-NIJ Science and Technology/StatisticsAnimal Science
Strain Driven Dynamic	erromagnets NSF Physics and Astronomy
*Quarter Scale Critic for International \$350,000. Zuhlke, Craig.	l Space Station NASA-Johnson Space Center
Instrumentation for Understar Chemistry during Femtoseco \$961,830	nd Laser Surface ProcessingDoD-ONR-DURIP ectrical and Computer Engineering ectrical and Computer Engineering
Tunable Laser Source for Advar \$480,616	
Functionalized Metallic Surface Drag Reduction, and \$559,466 No Anderson, Troy Ele Gogos, George M Ianno, Natale Ele Ndao, Sidy M	Novel Power Sources ational Strategic Research Institute ectrical and Computer Engineering echanical & Materials Engineering ectrical and Computer Engineering

Alfano, James Plant Pathology/ Center for Plant Science Innovation
EAGER: The Involvement of Blue Light in Plant Immunity \$264,899NSF
The <i>Pseudomonas Syringae</i> Type 3 Translocon and the Injection of Bacterial Effectors across the Plant Cell Wall and Plasma Membrane \$499,778
Allen, Craig  Global Change, Vulnerability and Resilience: Management Options for an Uncertain Future \$771,345
Monitoring, Mapping, Risk Assessment and Management of Invasive Species in Nebraska \$350,000
Zach, Allison
Amundsen, Keenan  Buffalograss Breeding, Evaluation and  Management for Golf Course  \$450,000
Asadollahipajouh, Mojdeh  *Determination of Zone of Intrusion Envelopes under MASH Impact Conditions for Rigid Barrier  \$400,000 National Academy of Sciences-NCHRP Bielenberg, Robert Midwest Roadside Safety Facility Faller, Ronald Midwest Roadside Safety Facility Schmidt, Jennifer Midwest Roadside Safety Facility Stolle, Cody Midwest Roadside Safety Facility
Avalos, George  Analysis and Control Theory for Moving Boundary and Nonlinear Phenomena in Interactive Partial Differential Equations  \$328,901
Toundykov, Daniel
Structure and Applications \$458,919NSF

<sup>\*</sup> Indicates new in 2017–2018

Awada, Tala	Natural Resources
*Carbon Flux from Great Plains Agroecosys with the ARS LTAR Network	
\$260,000. Erickson, Galen	USDA-ARS
Baenziger, P. Stephen Agror  Developing the Tools and Germplasm for \$975,000	
*Low-profile PMT Scintillator Read-o \$987,191DOD-DTRA through Ko Bauer, MarkElectrical and C	ansas State University
Hoffman, Michael Electrical and C	Computer Engineering
Banerjee, Simanti The Impacts of Conservation Auction Auction Performance and Communit Evidence from Lab and Artefactual Ex \$498,641	y Welfare: xperiments
Barker, Bradley  *EAGER: MAKER: Nebraska Innovative Maker C \$299,639  Farritor, Shane Mechanical & Keshwani, Jenny Biologica	NSF Materials Engineering
Nebraska Wearable Technolog \$984,189  Keshwani, Jennifer Biologica Krehbiel, Michelle	I Systems Engineering H Youth Development Materials Engineering Senter for Research on Families and Schools
Barletta, Raul Veterinary Medicine and Genome Wide Analysis of M. Paratuberculo \$499.981	osis Pathogenesis

Bartelt-Hunt, Shannon Civil Engineering
REU Site: Sustainability of Horizontal Civil Networks in Rural Areas \$352,698NSF
Jones, Elizabeth Nebraska Transportation Center
Kim, Yong Rak
Li, Xu
Li, Yusong
Steelman, Joshua
WSC Category 1: Influence of Climate and Agricultural Clustering
on Groundwater Contamination by Trace Organics \$599,663
Gates, John Earth and Atmospheric Sciences
Li, Xu
Li, Yusong
Rosenbaum, David
Tang, Zhenghong Community and Regional Planning Program
Thompson, Eric Bureau of Business Research
Bashford, Gregory Biological Systems Engineering REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory  REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006

Becker, Donald	Biochemistry/ Nebraska Center for Redox Biology/	Benson, John	Natural Resources
	Center for Plant Science Innovation	Mortality of Righer	urvival, and Cause-specific n Sheep in Nebraska
*RFLL Site: Tr.	raining in Redox Biology	\$544.000 Neb	raska Game and Parks Commission
\$298.186	NSF	, ,	
Adamec, JiriBiochemis	stry/Nebraska Center for Redox Biology/ Center for Plant Science Innovation	hemionus) Survival, Movement	Neonatal Mule Deer ( <i>Odocoileus</i> ts and Habitat Use in Nebraska
	ogy/Nebraska Center for Redox Biology/ Center for Plant Science Innovation	\$701,420Neb	raska Game and Parks Commission
Du, Liangcheng Chemis	stry/Nebraska Center for Redox Biology/	Berkowitz, David	Chemistry
	Center for Plant Science Innovation		ug Discovery and Development
Franco Cruz, Rodrigo Veterii	nary Medicine and Biomedical Sciences/		Air Force Base-STRATCOM through
	Nebraska Center for Redox Biology/ Center for Plant Science Innovation	N	ational Strategic Research Institute
Khalimanchuk Oleh	Biochemistry/		Biochemistry
Kildiiiioiiciiuk, Oleii	Nebraska Center for Redox Biology/	Powers, Robert	Chemistry
	Center for Plant Science Innovation	New Approaches to Catalys	t Screening and Development
Lee, Jaekwon Biochemis	stry/Nebraska Center for Redox Biology/		NSF
	Center for Plant Science Innovation	,	
Ro, Seung-Hyun Biochemis	stry/Nebraska Center for Redox Biology/	Bianchini Huebner, Andreia	Food Science and Technology
C: 1.1: B: 1.	Center for Plant Science Innovation		ity through Reduction of
Stone, Julie Biochemis	stry/Nebraska Center for Redox Biology/		s and Food Waste
Wilson Mark Biochemis	Center for Plant Science Innovation stry/Nebraska Center for Redox Biology/	\$930,007USA	ID through Kansas State University
Wilson, Wark blocheims	Center for Plant Science Innovation	Flores, Rolando	Food Science and Technology
7hana Limei	Biochemistry/		Food Science and Technology
g,	Center for Plant Science Innovation/	Weller, Curtis	Biological Systems Engineering
	Nebraska Center for Redox Biology/		
		Billesbach, David	Biological Systems Engineering
	ons by Proline Metabolic Proteins		k Management Project
	through University of Missouri-Columbia	\$419,578 University	DOE through of California-Berkeley National Lab
Belashchenko, Kirill	Physics and Astronomy	SCP Carb	on Project
	es Studies of Relativistic ractions and Torques		of California-Berkeley National Lab
	NSF		
Belli, Robert		Binek, Christian Physi	cs and Astronomy/Nebraska Center for Materials and Nanoscience
	ensus Research Data Center	Magnetoelectrics a	nd Spinorbitronics in
	NSF		ctures and Superlattices
Anderson, John			DoD-ONR through Jniversity of California, Los Angeles
		Black, Paul	Biochemistry
			gh Value Bioproducts
			partment of Economic Development through Vestal W2O
		Allen, James	Biochemistry

Blanco, Humberto Agronomy and Horticulture	Brewer, Gary Entomology
*Enhancing Soil Ecosystem Services with Cover Crops	*A Multi-tactic Push-Pull Strategy for Controlling Stable Flies
\$252,471Nebraska Environmental Trust	on Pasture Cattle in Nebraska and Florida
Ferguson, Richard Agronomy and Horticulture	\$325,000USDA-NIFA
Jasa, Paul Biological Systems Engineering	Boxler, David West Central Research and Extension Center
	Hanford, KathrynStatistics
Assessing Innovative Strategies to Maximize Cover Crop Yields for Biofuel across Precipitation Gradient	Stockton, Matt West Central Research and Extension Center
\$500,000 USDA-NIFA	Brown, Deborah Biological Sciences/
Creech, Cody Panhandle Research and Extension Center	Nebraska Center for Virology
Elmore, Roger Agronomy and Horticulture Francis, Charles Agronomy and Horticulture	Nebraska Research Network in Functional Genomics
Koehler-Cole, Katja	\$423,408NIH-NIGMS through UNMC
Parsons, Jay	Wood, Charles Biological Sciences/Biochemistry/
Ruis, Sabrina	Nebraska Center for Virology
Shaver, Tim West Central Research and Extension Center	
Yang, Haishun Agronomy and Horticulture	Buan Murphy, Nicole Biochemistry
	EAGER: Coupling Electron Transport and
Blum, Paul Biological Sciences	Metabolism using Biological Routers
Chromatin Modification in Archaea and	\$299,615NSF
Its Role in Gene Expression	Duchhalz Wallage Dialogical Dragge Davelanment Capility
\$379,675NSF	Buchholz, Wallace Biological Process Development Facility Cyber-Bio-Security:
Van Cott, Kevin Chemical and Biomolecular Engineering	Securing the Emerging Domain of Biomanufacturing
REU Site: Integrated Development of Bioenergy Systems	\$706,373 National Strategic Research Institute
\$416,464NSF	Ψ, σο, σ, σ · · · · · · · · · · · · · · · · ·
Cerutti, Heriberto	Manufacture of Recombinant Vaccine
Center for Plant Science Innovation	for Phase Clinical Trial and Toxicity Testing
	\$894,832 National Strategic Research Institute
Bobaru, Florin Mechanical & Materials Engineering	Johnson, Scott Biological Process Development Facility
Stress Corrosion Cracking: The Importance of	
Damage Evolution in the Layer Affected by Corrosion	Bulling, Denise Public Policy Center
\$596,188 DoD-ONR	Drought Planning Using Community Threat
Tan, Li Mechanical & Materials Engineering	and Hazard Identification and Risk Assessment
	\$284,588
Bovaird, James Educational Psychology/Nebraska Center for	Bathke, Deborah
Research on Children, Youth, Families and Schools	Bernadt, Tonya Natural Resources
Efficacy of the START-Play Program for	Fuchs, Brian Natural Resources
Infants with Neuromotor Disorders	Pytlik Zillig, Lisa Public Policy Center
\$355,392ED-IES through Duquesne University Sheridan, Susan Educational Psychology/Nebraska Center for	Shank, Nancy Public Policy Center
Research on Children, Youth, Families and Schools	Stiles, Crystal Natural Resources
Resourch on Children, Touth, Furnings and Schools	Wall, Nicole
	Developing Nebraska's Homeland Security Planning Capacity
	\$280,000 DHS through Nebraska Military Department-NEMA
	DeKraai, Mark
	Speck, Kathryn Public Policy Center

Enhanced Vitamin E \$490,000  Sustainable Biofuel from the Improved Germplo	Biochemistry/ Center for Plant Science Innovation tabolic Bottlenecks for Production in Crop Plants	by Controlling Consiste \$468,000	Gomputer Science and Engineering g the Power of Constraint Propagation ency Levels and Synthesizing ConstraintsNSF  Biological Sciences s of Plant Mitochondrial DNA RepairNSF
\$255,000	Natural Resources Int and Human Dimensions Interpretation DOI-FWS through Itebraska Game and Parks Commission	Epigenetic Regulation	Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules on of Obesity and Metainflammation by stid and its Microbiota-derived Metabolites,
\$345,704	Physics and Astronomy of Complex Isolated MoleculesNSF action from Aligned Molecules	Ramer-Tait, Amanda	the Urolithins
\$680,662 Cerutti, Heriberto	Biological Sciences/ Center for Plant Science Innovation	a High-value, Stabl from Tomat	Food Science and Technology In Integrated Green Process to Obtain e and Bioavailable Lycopene Product to Processing Industry Waste
\$346,108Clemente, Thomas	Senomics Tools for <i>Tetraselmis</i> sp Gordon and Betty Moore Foundation Agronomy and Horticulture/ Center for Plant Science Innovation	Demirel, Yasar  Ciobanu, Daniel	
in <i>Chla</i> \$560,000	Mediated Translation Repression  amydomonasNSF	\$459,200 Kachman, Stephen	
Catalytic Reactive C	Chemistry ry of Metal Oxides for Dxygen Species GenerationNSF	Clemente, Thomas  *EAGER: Non-integra	Agronomy and Horticulture/ Center for Plant Science Innovation/ Center for Biotechnology tive Transient Delivery of Reagents into
\$288,371	Natural Resources f the Nebraska Outdoor Enthusiast	\$299,006 Novel Technologie High Yielding C4 B \$477,321	e IV Secretion System of A. tumefaciens
rope, Kevin	Natural Resources		University of Illinois at Urbana-Champaign

A Resource for Functional Genomics to Support Soybean Genetics and Breeding \$835,378	Cress Nipper, Cynthia  Special Education and Communication Disorders  *STTR: Infant Screening of Communication Risk: The CISS \$389,960 DHHS-NIDCD through Brookes Publishing Co., Inc.  STTR: Infant Assessment of Early Communication Risk Factors: The ECBS \$600,123NIH-NIDCD through Brookes Publishing Company
Comfort, Steven  STTR: Improving the Treatment of Contaminated Aquifers by Developing Direct Push Slow-release Oxidant Candles with Pneumatic Circulators  \$395,641	*Understanding the Mechanisms of the Pulsed Electric Current Process for Joining Oxide-Dispersion-Strengthened Alloys \$307,825
Cornelius, Christopher Chemical and Biomolecular Engineering Nanomanufacturing of Multicomponent Inorganic Functional Coatings and Fibers Using Sol-Gel Processing \$297,543	Mechanisms of Toughening Structural Ceramics by Thermal Engineered Laser Shock Peening \$348,336NSF Lu, YongfengElectrical and Computer Engineering Nastasi, Michael Nebraska Center for Energy Sciences Research
Couch, Brian  Cultivating Active Learners by Enabling Instructors to Monitor and Enhance Student Buy-in and Utilization of Research-based Instructional Strategies \$299,920	Cupp, Andrea  Causes and Consequences of Androgen Excess on Oocyte Quality \$499,994
Impact of the Summer Institution on Faculty Teaching and Student Achievement \$393,068	Dauer, Jenny  *Making Decisions about Socioscientific Issues in Multidisciplinary Postsecondary Learning Environments \$299,998
Koehler, Karsten	Body Size Evolution in Ecological Communities \$450,000

*Detection of Nuclear Threats Using Deployable Sensors \$469,293DOD-Offutt Air Force Base-STRATCOM through National Strategic Research Institute Bradley, JustinComputer Science and Engineering Duncan, BrittanyComputer Science and Engineering	Dowben, Peter  Nebraska Center for Materials and Nanoscience  *Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes through Tailored Nanostructures  \$260,001
At the Water's Edge: Installation and Optimization of Robotic Sensing Systems \$759,400	Spin and Dipole Ordering at Molecular Film Interfaces \$442,944
Robotic Water Sampling and Sensing in the Wild \$956,210	Voltage-Controlled, Low-Power Nonvolatile Spintronic Memory \$899,830 Semiconductor Research Corp. through University of Minnesota Binek, Christian Physics and Astronomy
DiLillo, David  *Intervention to Promote Pro-social Bystander Behaviors \$402,117	Duncan, Brittany  *REU Site: Undergraduate Research Opportunities in Unmanned Systems Foundations and Applications \$344,649
DiRusso, Concetta  Activators of Lipid Accumulation in Algae \$550,000	Detweiler, Carrick
Adamec, Jiri Biochemistry Cerny, Ronald Chemistry	Biotech Connector \$750,000DOC-ED
Dodd, Michael Psychology Task Switching and Visual Behavior \$581,696	Duppong Hurley, Kristin  Special Education and Communication Disorders  Randomized Clinical Trial of the Boys Town In-Home Program \$706,989
Dodds, Eric Chemistry Gas-Phase Structural Analysis of Metal Cationized Carbohydrates \$360,000	Dussault, Patrick  A New Paradigm for Ether Synthesis \$390,000
Dombrowski, Kirk  REU Site: Social Network Analysis for Solving Minority Health Disparities  \$349,996	Effect of Composition and Particle Size in Oxidation Catalysis by Metal Oxide Solid Solution Nanoparticles \$560,358

Dvorak, Bruce Civil Engineering	Erixson, John Nebraska State Forest Service
Water Innovation Network for	*Genomic Tools, Genetic Resources, and Outreach to
Sustainable Small Systems (WINSSS)	Expand Commercial U.S. Hazelnut Production
\$338,160 EPA through University of Massachusetts-Amherst	
Lai, Rebecca	Clare, Aaron Nebraska State Forest Service
Ray, Chittaranjan	Josiah, Scott
Dzenis, Yuris Mechanical & Materials Engineering	Community Adjacent Fuels Award
Bulk Nanostructured Materials for Navy Applications	\$572,654
\$702,271 DoD-ONR	Protecting, Rehabilitating and Restoring Nebraska's Pine Forest Ecosystems
Disconing ation Name automation of Martanials	\$989,667
Biomimetic Nanostructured Materials Based on Synthetic Spider Silk	Duplissis, John
\$300,000NSF	Hazardous Mitigation Treatments on Non-Federal Lands
GOALI: Nanomanufacturing of Ultrahigh-Performance Continuous	\$431,970
Carbon Nanofibers and Assemblies	Conservation and Stewardship Education
\$299,947NSF	for Nebraska Educators and Youth
Papkov, Dimitry Mechanical & Materials Engineering	\$295,781
Elbaum, Sebastian Computer Science and Engineering	Eskridge, Kent Statistics
SHF: Small: Testing in the Presence of Continuous Change	CAANIN Followship Dragger for Statistics
\$425,000NSF	\$887,202ED
Rothermel, GreggComputer Science and Engineering	\$007,202 · · · · · · · · · · · · · · · · · ·
Elkins, Lynne Earth and Atmospheric Sciences	Espy, Kimberly Psychology
*Testing Extrusion Tectonics, Rifting, and	Neurocognitive Mechanisms of Developing
Lithosphere-Asthenosphere Coupling Models for the	Executive Control and Risk for ADHD in Preschool
Central Highlands Diffuse Igneous Province, Vietnam	\$415,250
\$413,437	1 T:((
Burberry, Cara Earth and Atmospheric Sciences	Molfese, Dennis
Assessing Segment-scale Compositional Control over	Nelson, Jennifer Research and Economic Development
Slow-spreading Ridge Morphology	Cabrillant IIva Dhyaica and Astronomy
\$259,150NSF	*Inelastic Electron Collisions with Molecules and Clusters
Erickson, Galen Animal Science	\$269,465NSF
Evaluation of Algal Biomass as Potential Cattle Feed	
\$284,091Evonik Industries	
Brodersen, Bruce Veterinary Medicine and Biomedical Sciences	
Loy, J. Dustin Veterinary Medicine and Biomedical Sciences	

Watson, Andrea ......Animal Science

Faller, Ronald Midwest Roadside Safety Facility	Fernandez-Ballester, Lucia Mechanical & Materials Engineering
MASH TL-4 Steel-tube Bridge Rail and Guardrail Transition \$926,851DOT-IL DOT/OH DOT through	*Nucleation Control of Conjugated Polymers through Melt-crystallization and Self-seeding
Nebraska Department of Transportation Bielenberg, RobertMidwest Roadside Safety Facility	\$345,000NSF
Rosenbaugh, ScottMidwest Roadside Safety Facility Schmidt, JenniferMidwest Roadside Safety Facility	Fernando, Samodha Animal Science
	*Investigating Mobile Genetic Elements and Resistance Gene Reservoirs towards Understanding the Emergence and Ecology
Test Level 3 Dynamic Testing and Evaluation of MnDOT's Noise Wall System under AASHTO MASH 2016	of Antimicrobial Resistance in Beef Cattle Production Systems
\$305,115 DOT-MN DOT through	\$830,751
Nebraska Department of Transportation Holloway, James Midwest Roadside Safety Facility	Loy, DustinVeterinary Medicine and Biomedical Sciences
Lechtenberg, KarlaMidwest Roadside Safety Facility	Messer, Tiffany Biological Systems Engineering Morota, Gota Animal Science
Rosenbaugh, ScottMidwest Roadside Safety Facility Schmidt, JenniferMidwest Roadside Safety Facility	Paz Manzano, Henry Animal Science
	Schmidt, Amy Animal Science/Biological Systems Engineering Snow, Daniel
Dynamic Testing and Evaluation of a New York DOT Prototype Box Beam Guardrail End Terminal System	Stowell, Rick Biological Systems Engineering
under AASHTO MASH 2016 TL-3 Guidelines \$265,250 New York State Department of Transportation	*Moving Beyond Rumen Microbiota Composition to
through Nebraska Department of Transportation	Identify Interactions between Host Genotype and Rumen Function towards Identifying Genetic Markers and
Lechtenberg, KarlaMidwest Roadside Safety Facility Reid, JohnMechanical & Materials Engineering	Microbial Functions that Influence Feed Efficiency
Schmidt, JenniferMidwest Roadside Safety Facility	\$500,000
Evaluation of New Jersey TCB Performance under MASH TL-3	Paz Manzano, Henry Animal Science Spangler, Matthew Animal Science
\$702,369	
Nebraska Department of Transportation Bielenberg, RobertMidwest Roadside Safety Facility	Improving Air Quality by Reducing Methane Emissions from Cattle \$348,298Nebraska Environmental Trust
Lechtenberg, KarlaMidwest Roadside Safety Facility Reid, JohnMechanical & Materials Engineering	Erickson, Galen Animal Science
Rosenbaum, ScottMidwest Roadside Safety Facility	Kononoff, PaulAnimal Science
Iowa DOT Combination Bridge Separation	Dietary Intervention and Microbial Community Analysis toward Methane Mitigation
Barrier with Bicycle Railing \$254,445DOT-FHWA through	\$749,941
Nebraska Department of Transportation	Erickson, Galen
Bielenberg, RobertMidwest Roadside Safety Facility Reid, JohnMechanical & Materials Engineering	Klopfenstein, TerryAnimal Science Luebbe, Matthew Panhandle Research and Extension Center
Rosenbaugh, ScottMidwest Roadside Safety Facility	Rasby, Richard
Phase II Conceptual Development of an Impact Attenuation System for Intersecting Roadways	Fielding, Christopher Earth and Atmospheric Sciences
\$256,184	ELT Collaborative Research: Causes and Effects of the Permian-Triassic Biotic Crisis
Nebraska Department of Transportation Bielenberg, RobertMidwest Roadside Safety Facility	Inferred from Continental Margin Sections and Modeling
Reid, John Mechanical & Materials Engineering	\$400,157NSF Frank, Tracy Earth and Atmospheric Sciences
	,asj

Fontaine, Joseph Climatic Constraint			Physics and Astronomy Investigation of Laser-driven
Populations along TI \$424,913 Nebr		\$420,000	
Bachman, Gwendolyn	Biological Sciences		Physics and Astronomy
	Natural Resources/ Daugherty Water for Food Institute		linear X-Ray OpticsDOE
Franz, Trenton	g and Water LiteracyNSFAgricultural Economics/ Daugherty Water for Food Institute	to Genetic, Phylog to Predic \$716,893	Natural Resources ing Remotely Sensed Optical Diversity genetic and Functional Diversity et Ecosystem Processes
Modeling Hydrologic Syste		ABoVE Domain Using Nov \$665,893	son Length and Productivity across the vel Satellite Indices and a Ground SensorNASA Biological Systems Engineering
Franzen-Gastle, Lisa iCook: A 4-H Program to P Family Meals for C \$332,321	Dbesity Prevention A-NIFA through University of Maine	in the Manter	University of Nebraska State Museum/ Biological Sciences Digitizing and Conserving Specimens Laboratory of Parasitology
Voices f \$618,314 USDA-NIFA thro Kroupa, MichelleNorthe Sale, BrendaNorthe	ough South Dakota State University ast Research and Extension Center	Diamond, Judy	University of Nebraska State Museum University of Nebraska State Museum University of Nebraska State Museum ry: Securing and Digitizing Data for
Fritz, Sherilyn  FESD Type 1: The Dynamics and Climate in the Distril		Parasite Biodiversity S \$499,991	pecimens in the Manter LaboratoryNSF University of Nebraska State Museum
Biodiversity of the An \$378,847	nazon/Andean Forest NSF through Duke University	Development of Qual Approach to E	Agronomy and Horficulture lity Protein Popcorn as a Non-GMO nhanced Nutritional Quality, ume and Flavor Profile
Fuchs, Brian Drought Information Services across the U \$927,774	nited StatesUSDA-OCE	\$694,200 Holding, David Rodriguez, Oscar	
Svoboda, Mark	Natural Resources		

Gay, Timothy Accurate Elect	Physics and Astronomy ron Spin Optical Polarimetry (AESOP)	Golick, Douglas  Community as Habitat: Nebraska Commu Pollinators and Landscape Diversit	y through
	olarized Electron PhysicsNSF	Native Waterwise Plant Habi \$364,520	ka Environmental Trust
in situ Higl \$499,896	Biological Systems Engineering  sed Multi-sensing Penetrometer for n-resolution Depth Sensing of Soils	*Utilizing Unique Genetic Diversity t Elevated Protein Concentration with in New Varieties and Experiment \$515,426	High Yield al Lines in Board/Smith/Bucklin nomy and Horticulture Gain for grams arch Program through Ohio State University nomy and Horticulture for Nebraska braska Soybean Board nomy and Horticulture t in Agro-Ecosystems USDA-NIFA gricultural Economics//ater for Food Institute nomy and Horticulture in Systems
Gogos, George  Highly Perman Surfaces by For Th \$563,131  Alexander, Dennis Anderson, Troy Ianno, Natale Ndao, Sidy	Mechanical & Materials Engineering ent Biomimetic Micro/Nanostructured emtosecond Laser Surface Processing lermal Management Systems	Griep, Mark  Framing the Chemistry Curric \$749,285  REU Site: Research Experiences for Un in Chemical Assembly at the University \$339,683  Gruverman, Alexei  Pl Nebraska Center for Mate Domain Wall Engineering for Novel No \$338,422	dergraduates  of NebraskaNSF  nysics and Astronomy/ rials and Nanoscience noelectronics

\$446,250	Food Science and Technology h Isolation and CharacterizationR.J. Reynolds Tobacco CompanyFood Science and TechnologyFood Science and Technology	Heaton, Ruth	Teaching, Learning and Teacher Education/ Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Science, Mathematics and Computer Education Math Early On II
Students in I \$275,667 Blanco, Humberto Elmore, Roger Howell Smith, Michelle	Agronomy and Horticulture esearch and Extension Skills of integrated Agronomic Systems	Leeper Miller, Jennifer	
Redfearn, Daren	Agronomy and Horticulture	Hebert, Michael	Special Education and Communication Disorders
Label-Free o Ultrathin-La \$402,483	Chemistry mentation Development: and Rapid 3D-Nanostructure yer Imaging ChromatographyNSF	of Strugglir Exposi \$399,073	mproving the Reading Comprehension ng Readers in the 4th Grade through itory Text Structure and WritingEDSpecial Education and Communication Disorders
	nic Automation of ImmunoassaysNIH-NIGMS	Hebets, Eileen	Biological Sciences tems Approach to Complex Animal Signaling
Integrated	Earth and Atmospheric Sciences/ Antarctic Drilling Program tic Lakes Scientific Access (SALSA): Study of Carbon Cycling in Active Subglacial Environments	\$645,000 Navigat Multimodal Senso	ion and the Neural Integration of ry Information in the Brain of an Arthropod
\$299,175		Hermiller, Susan	Mathematics
<b>Hayes, Michael</b> Drought Risk M	Natural Resources anagement for the United States		Geometry of Cayley Graphs for GroupsNSF
\$693,696	OC-NOAA through University of OklahomaEarth and Atmospheric SciencesNatural ResourcesNatural ResourcesNatural ResourcesNatural Resources	for Dissecting Mo \$412,985	Agronomy and Horficulture el Functional Genomics Platform size Kernel Maturation and Protein QualityUSDA-NIFABiological Sciences

Hong, Xia	Physics and Astronomy/ Nebraska Center for Materials and Nanoscience Spin-Orbit Coupling and Correlated Phenomena		Electrical and Computer Engineering arch Experience for Undergraduates in obybrid Functional Materials
in Iridate-ba	sed Ferroelectric Transistors and Tunnel JunctionsNSF	\$306,032	NSF
Nanoscale Ferro	pelectric Control of Novel Electronic States in Layered Two-dimensional Materials	Ihlo, Tanya	Nebraska Center for Research on Children, Youth, Families and Schools
\$750,262	DOE	Support	raska Multi-Tiered System of : Implementation Support Team :D through Nebraska Department of Education
Hope, Debra	<b>Psychology</b> hity Partnership to Identify Intervention Targets		
to Improve N	Mental Health Services to Transgender Individuals in Underserved Areas	Irmak, Suat  Contin	Biological Systems Engineering
\$399,418	NIH-NIMH	Various Cropp	tive Water Use Measurements of ping Systems and Natural Ecosystems Nebraska Environmental Trust
Housh, Terry	Nutrition and Health Sciences/ Nebraska Center for the Prevention of	Jackson-Ziems, Tamra	Plant Pathology
	Obesity Diseases through Dietary Molecules ability and Distribution of Bovine Milk Exosomes	Uncovering the 0	Genetic Basis of Tolerance to Goss's Wilt n North American Maize
\$347,185	heir RNA, Lipid and Protein Cargos in MicePureTech Health	\$293,431	Dow AgroSciences
Zempieni, Janos		Herbicide-R	Agronomy and Horficulture e Flow from Acetolactate Synthase-Inhibiting Resistant Sorghum to Johnsongrass
Houston, Adam Investigating	Earth and Atmospheric Sciences g Soil Moisture-Convective Precipitation Feedbacks		E. I. DupontAgronomy and Horticulture
	with Soil Moisture Active Passive	Establishing One H	Veterinary Medicine and Biomedical Sciences ealth Best Practices for Range Bison HerdsDHHS-CDC-NIOSH
	argeted Observation of Severe Local Storms Using Aerial Robots		
Hunt, Thomas Evaluating the Delaying the	Northeast Research and Extension Center Efficacy of Insect Resistance Management Plans for e Onset of Bacillus Thuringiensis Toxin Resistance	Enhance Distribu \$296,969	avioral Ecological Network Models to uted Spectrum Access in Cognitive RadioNSFSociology
\$492,497	n Western Bean Cutworm Populations	Evapotransp	Civil Engineering/Natural Resources g and Enhancing Landsat Derived iration and Surface Energy Products
Hutkins, Robert *Digestive Tr	Food Science and Technology ract Microbiome in Healthy Term Infants Receiving		DOI-GS through University of Idaho
Mothers-ow \$265,749	n Breast Milk or Cows Milk-based Infant Formulas	with H	D Mapping Evapotranspiration High Resolution Satellite DataCentral Platte Natural Resources District

Kim, Surin Textiles, Merchandising and Fashion Design	Lackey, Susan Natural Resources
*Leveraging Community Connections, Local Issues, and Youth High Tech Entrepreneurship Education	Developing Hydrogeologic Databases to Assist in Water Resources Management
to Nurture Rural Economic Opportunities	\$649,100 Lower Elkhorn NRD
\$493,560	Lechtenberg, Karla Midwest Roadside Safety Facility *Crash Testing MoDOT Devices
Nicholas, Claire Textiles, Merchandising and Fashion Design	\$376,367Missouri Department of Transportation through Nebraska Department of Roads
Kim, Yong Rak Civil Engineering/ Nebraska Transportation Center Identification and Modeling of Interphase in Cementitious Mixtures through Integrated Experimental-Computational Multiscale Approach	Faller, Ronald
\$275,362NSF Turner, JosephMechanical & Materials Engineering/ Nebraska Transportation Center	Lewis, Elizabeth Teaching, Learning and Teacher Education  Longitudinal Evaluation of Noyce Science Teachers  to Determine Sources of Effective Teaching
Knutson, Cody The Wind River Indian Reservation's Vulnerability to the Impacts of Drought and the Development of Decision Tools to Support Drought Preparedness	\$799,890
\$253,547	Lewis, Ronald  Understanding Parasite Resistance in Organic Livestock and Using a Systems Approach for Control \$291,478
Korus, Jesse Nebraska GeoCloud: An Integrated Bedrock Mapping and Hydrogeologic Framework Database and Map Viewer \$264,014 Nebraska Department of Natural Resources through Lower Platte South NRD Cameron, Kathleen Natural Resources Joeckel, Matt Natural Resources	Li, Qingsheng  Biological Sciences/ Nebraska Center for Virology  *Impact of Fc N-glycan Structure on HIV-specific Antibody Functions \$295,950
Kovalev, Alexey Physics and Astronomy Statistical Mechanics of Non-Local Disordered Models with Associated Quantum LDPC Codes \$255,000	Lindquist, John  *A Risk-assessment Model and Population Genomics Tools for Monitoring Herbicide-resistance Evolution in Weedy Sorghum \$499,998
Krehbiel, Michelle  Nebraska CYFAR Sustainable Community Project \$648,750	Sigmon, Brandi Agronomy and Horticulture Tenhumberg, Brigitte Mathematics/Biological Sciences

Loecke, Terrance  Can Improving Predictions of Soil Oxyger  Understanding of Greenhouse Gas Hotsp	Natural Resources n Dynamics Increase ots and Hot Moments	Males, Lorraine Teaching, Learning and Teacher Education  *Examining the Impact of the CPM Implementation in an Urban District
\$699,254 Bernadt, Tonya Burgin, Amy	Natural Resources	\$361,292
Franz, Trenton Pathak, Tapan	Natural Resources	Mamo, Martha  Fostering the Next Generation of Agricultural and  Natural Resources Professionals through Experiential Learning
Lu, Yongfeng Electrical a Radar 2021	nd Computer Engineering	in Research, Education and Extension \$281,475
\$578,025	,	Keshwani, Jennifer
High-power Laser System for Repairing A \$349,506	DoD-ÖNR-DURIP	Lee, Donald
Post-Detonation Radiological and N Using Laser-Assisted Mass Spectron	netry in Open Air	Sandall, Leah
\$750,000		Speth, Carol Agronomy and Horticulture
Vertically Aligned Carbon-Nanotul in Ceramic Matrices for Hot Electro	de Applications	Grazing Management Effect on Micro- and Macro-Scale Fate of Carbon and Nitrogen in Rangelands
\$400,000		\$497,000
Ultrafast Fiber Laser Sampling and Plasma-I Breakdown Spectroscopy to Co		Eskridge, Kent
\$488,000 DoD-DTRA through	, c	Guretzky, John
Diamond Coating Adaptive to Subs Using a Diamond-Composite B	uffer Layer	Schacht, Walter Agronomy and Horticulture Volesky, Jerry West Central Research and Extension Center
\$793,342		Whipple, Sean Panhandle Research and Extension Center Wingeyer, Ana Agronomy and Horticulture
Using Precision Technology in On-fo	ical Systems Engineering arm Field Trials	Yang, Haishun Agronomy and Horticulture
to Enable Data-intensive Fertilizer \$513,798	USDA-NIFA through	Markham, Jonathan Plant Sphingolipids: New Targets for Engineering Cold-Tolerance in Crops
Ferguson, Richard		\$408,000 USDA-NIFA Cahoon, Edgar Biochemistry
Mieno, Taro	. Agricultural Economics	
Next-generation Spray Drift Mi		Meinke, Lance Entomology Characterizing Resistance Evolution to Pyrethroid Insecticides \$528,340
Field-deployable, Real-time Weather Novel Spray Nozzle Control Te	Monitoring and	Miller, Nicholas Entomology
\$499,916 West Central Resea Pitla, Santosh Biolog	rch and Extension Center	

*Photodegradation of Insecticides in Rivers Adjacent to Agricultural Intensive Regions: A Novel Water Quality Monitoring Approach	Nelson, Timothy  Center for Brain, Biology and Behavior  Role of Executive Control in Adolescent Substance Use
\$498,500	and Co-occurring Problems \$636,372NIH-NIDA through Boys Town National Research Institute
Moreau, Regis  Nutrition and Health Sciences  Bioactivity of Curcumin and Gut Inflammation	Espy, Kimberly
\$480,214 USDA-NIFA Hage, David Chemistry	Center for Brain, Biology and Behavior
Munoz-Arriola, Francisco  *From Gene to Global Hydroclimatic Controls on Hybrid Performance Predictability \$490,000	Nguyen, Lim Electrical and Computer Engineering *ABC Group SRA: Center for Electromagnetic Concrete R&D and Shielding Innovations \$301,408
Hernandez Jarquin, Juan Diego Agronomy and Horticulture	Niu, Wei Chemistry
Nastasi, Michael Mechanical & Materials Engineering/ Nebraska Center for Energy Sciences Research	SusChEM: Novel 1,2-Propanediol Biosynthesis from Renewable Feedstocks through Enzyme Discovery
Radiation Tolerance and Mechanical Properties of Advanced Ceramic/Metal Composites	\$317,611NSF Guo, JiantaoChemistry
\$994,292 DOE  Neale, Christopher Biological Systems Engineering/	Nugent, Gwen Nebraska Center for Research on Children, Youth, Families and Schools
Robert B. Daugherty Water for Food Institute Improving Variable Rate Irrigation Efficiency using a Real-time Soil Water Adaptive Control Model	Analysis of Effective Science Coaching: What, Why and How \$699,584NSF Houston, James
Informed by Sensors Deployed on Unmanned Aircraft Systems \$499,978	Children, Youth, Families and Schools Kunz, Gina Nebraska Center for Research on Children, Youth, Families and Schools
Heeren, Derek Biological Systems Engineering Luck, Joe Biological Systems Engineering Meyer, George Biological Systems Engineering Woldt, Wayne Biological Systems Engineering	Odhiambo, Lameck  *Reconfiguring Farmers' Behavior to Reduce Irrigation  Water Use through Water Measurements and Social Norms Interventions: A Case Study in the Republican River Basin
Nelson, Carl Mechanical & Materials Engineering A Novel Pediatric Gait Rehabilitation Device	\$453,539
\$394,911NIH-NICHD	Oglesby, Robert  Program to Strengthen Institutional Capacity to Better Assess Climate Impacts in Latin America and the Caribbean (LAC)
	\$307,000 Inter-American Development Bank Rowe, Clinton Earth and Atmospheric Sciences

Osorio, Fernando Veterinary Medicine and Biomedical Sciences	Powell, Larkin Natural Resources
Molecular Structures of Porcine Reproductive	Management of Private Grazing Lands in Nebraska:
and Respiratory Virus (PRRSV) that Contribute to Protective Immunity	Do Differences in Ranch Management and Landowner Characteristics Affect Conservation Impacts
\$500,000 USDA-AFRI	\$344,521Nebraska Game and Parks Commission
Pattnaik, Asit Veterinary Medicine and Biomedical Sciences	Schacht, Walter Agronomy and Horticulture
Otu, Hasan Electrical and Computer Engineering	Persistent Effects of Wind-Power Development
*Identification and Characterization of Interaction Atlases in Humans	on Prairie Grouse in Nebraska \$717,487 Nebraska Game and Parks Commission
\$399,477 DHHS-National Library of Medicine Sayood, Khalid Electrical and Computer Engineering	Brown, Mary
Sayooa, Knalia Electrical and Computer Engineering	Fontaine, Joseph Natural Resources
Pannier, Angela Biological Systems Engineering	Powers, Robert Chemistry
Understanding Molecular Factors that	ABI Innovation: A Metabolomics Toolkit
Regulate Initiation of Porcine Embryo Elongation \$465,000	for NMR and Mass Spectrometry
\$403,000 OSDA-NII A	\$695,000NSF
Pérez, Lance Electrical and Computer Engineering	Proctor, Christopher Agronomy and Horticulture
Spatial Visualization Skills and Engineering Problem Solving \$645,943	Optimizing Cropping Systems for Resilience to Stress:
\$040,545	The Role of Maturity Group Selection and Cover Crops
A Chautauqua Program for the 21st Century	on Yield, Weeds, Insects and Microbes
\$448,603NSF	\$461,187 USDA-NIFA Drewnoski, Mary Animal Science
	Elmore, Roger
Piepenbrink, Kurt Food Science and Technology	Everhart, SydneyPlant Pathology
Structural Basis of Type IV Pilus-Induced  Clostridium difficile Microcolony Formation	McMechan, Anthony Eastern Nebraska Research
\$259,560NIH-NIAID	and Extension Center Parsons, Jay
	Redfearn, Daren
Pierobon, Massimiliano Computer Science and Engineering	, ,
*CIF: Small: WetComm: Foundations of Wet Communication Theory	Qian, Yi Electrical and Computer Engineering
\$499,528	Spectrum and Energy Efficient Radio Resource Access in
Mu, Wei Chemical and biomolecular Engineering	Wireless Networks with Densely Deployed Underlay Devices \$300,000NSF
Pitla, Santosh Biological Systems Engineering	Sharif-Kashani, Hamid Electrical and Computer Engineering
*In-field Tractor Operational Load Profile Generation in	
Support of Advanced Tractor Testing in Mixed-mode Power States	Qiao, Wei Electrical and Computer Engineering
\$472,887 USDA-NIFA Hoy, Roger Biological Systems Engineering	Online Nonintrusive Identification and Monitoring of Internal Weak
Luck, Joe Biological Systems Engineering	Points of Electro-energy Devices Using Package Surface Temperature
Rohrer, Rodney Biological Systems Engineering	\$337,897NSF
	Qu, Liyan Electrical and Computer Engineering
	Voltage and Frequency Power Converter Based on Electromagnetic Induction
	\$493,349 DOE-ARPA-E

Radu, Petronela Mathematics  *Higher Order Nonlocal Models in Continuum Mechanics \$290,621	Ray, Chittaranjan  Robert B. Daugherty Water for Food Institute  Sustaining Agriculture through Adaptive Management Resilient to a Declining Ogallala Aquifer and Changing Climate  \$945,567
Raikes, Helen Child, Youth and Family Studies  Evaluation of Early Steps to School Success \$734,694	Rudnick, Daran West Central Research and Extension Center/ Robert B. Daugherty Water for Food Institute Schoengold, Karina Agricultural Economics/Robert B. Daugherty Water for Food Institute
Rajca, Andrzej  *Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery	Shaver, Tim West Central Research and Extension Center/ Robert B. Daugherty Water for Food Institute Integrating the Vadose Zone for Improved Management
\$316,735	of Nebraska Ground Water Quality \$384,227
\$495,000NSF  Ramamurthy, Byravamurthy Computer Science and Engineering CC*DNI Integration: Innovating Network Cyberinfrastructure	Rebarber, Richard Mathematics Nebraska Math Scholars
through Openflow and Content Centric Networking in Nebraska \$572,112NSF Bockelman, BrianComputer Science and Engineering Swanson, DavidComputer Science and Engineering	\$599,996
Rasby, Rick  Nebraska Extension Implementation Program \$627,447	Riekhof, Wayne Biological Sciences  *The Life History and Systems Biology of Fungal-Algal Mutualisms \$639,910
Jackson-Zierins, rumin	Riley, Mark  Nebraska AgrAbility  \$729,000
	Rosenbaugh, Scott Cost-efficient, TL-2 Bridge Rail for Low-volume Roads \$309,141

Saraf, Ravi Chemical and Biomolecular Engineering High Specificity MicroRNA Microarray Analysis without PCR for Cancer Screening and Research	*The Influence of Doping and Annealing onto the Lattice Dynamics, Band Structure and Free Charge Carrier Properties in
\$490,048 NIH-NCI	Monoclinic Gallium Aluminum Oxide Semiconductor Alloys \$430,052NSF
Scalora, Mario Public Policy Center/Psychology The Influence of Subjective and Objective Rural School Security on Law Enforcement Engagement Models \$645,952	*The Strain-Stress Relationships for Band Gap, Phonon and Plasmon Energies in Monoclinic Ga2O3 and Related Materials \$323,393
Identifying Mechanisms Conferring Low Temperature Tolerance in Maize, Sorghum, and Frost-tolerant Relatives \$455,000	Center for Science, Mathematics and Computer Education Bathke, Deborah
Schubert, Eva Electrical and Computer Engineering  MRI: Development of an Ion-Beam-Assisted Glancing Angle Deposition Tool (iGLAD) for 3D Nanostructure Thin Film Preparation with in situ Ellipsometry Control  \$411,501	Nebraska Center for Materials and Nanoscience  Development of Radically Enhanced alnico Magnets (DREaM) \$600,000
	\$524,991NSF Kalmykov, SergePhysics and Astronomy

Sharif-Kashani, Hamid Electrical and Computer Engineering	Smyth, Jolene Sociology/
*Wireless Digital Train Line for Passenger Trains:	Survey Research and Methodology
Exploring Railroad Requirements, Achieving Synergy, and	Using Statistical and Survey Methodology Research to Improve
Designing WiDTL for Next-generation Passenger Rail Services	or Redesign Surveys Related to Science and Engineering
\$300,045	\$460,000 USDA-NASS
Hempel, Michael Electrical and Computer Engineering	Olson, KristenSociology/Survey Research and Methodology
Shield, Jeffrey Mechanical & Materials Engineering/	Snow, Daniel Water Center/
Nebraska Center for Materials and Nanoscience	Robert B. Daugherty Water for Food Institute
Grain and Interface Engineering for	Vadose Zone Nitrate Study for the City of Hastings, NE: 2015
High-efficiency Hybrid Perovskite Solar Cells	\$299,982City of Hastings, NE
\$450,000DoD-AFOSR	Ray, Chittaranjan
D. I (T IIII I F	Robert B. Daugherty Water for Food Institute
Development of Textured High Energy Nanocomposite	
Permanent Magnets for Electric Motors and Generators \$347,726	Snow, Gregory Physics and Astronomy
\$347,726National Oliwell varco	GAANN Fellowships for Physics at UNL
Cinitalii Alayandar Chamiatry	\$408,315ED
Sinitskii, Alexander Chemistry	Adenwalla, Shireen
Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity	Batelaan, Herman
\$768,496 DoD-ONR	Claes, Daniel
\$700,450	Gay, Timothy
Polarization-Mediated Modulation of Electronic Properties	Uiterwaal, Cornelis
of Hybrid Ferroelectric Based Heterostructures	
\$409,996NSF	Soh, Leen-Kiat Computer Science and Engineering
Gruverman, Alexei	Computational Creativity to Improve Computer Science Education for CS and non-CS Undergraduates
Smith, Wendy Mathematics/Center for Science,	\$873,250NSF
Mathematics and Computer Education	Ingraham, Elizabeth Art, Art History and Design
*Teacher Leadership (T-LEAD): Investigating the Persistence and	Moore, BrianMusic
Trajectories of Noyce Master Teaching Fellows	Ramsay, Stephen
\$701,004NSF	Shell, DuaneEducational Psychology
Student Engagement in Mathematics through	Sokolov, Andrei Physics and Astronomy/
an Institutional Network for Active Learning	Nebraska Center for Materials and Nanoscience
\$332,442NSF	Robust Room Temperature Electric Field Control
Donsig, Allan	of Structural Magnetic and Transport Properties
Wakefield, Nathan	of Ultra-Thin Shape Memory Heusler Alloys Films
NebraskaNOYCE Phase II:	\$364,567NSF
Investigating the Impact in High-Need Districts	
\$349,864NSF	Spangler, Matthew Animal Science
Lai, Yuan-Juang Mathematics/Center for Science,	*Beef Cattle Production System Decision Support Tools
Mathematics and Computer Education	to Enable Improved Genetic, Environmental,
Lewis, Jim Mathematics/Center for Science,	and Economic Resource Management
Mathematics and Computer Education	\$299,312 USDA-NIFA
Males, LorraineTeaching, Learning and Teacher Education	

Stains, Marilyne	Chemistry/Center for Science,	Radio Frequency Processing for Impro	ving
	Mathematics and Computer Education	Microbiological Safety of Low Moisture	
	n Higher Education Social Networks nd STEM Reforms	\$299,989 Biological Sy	
	NSF	Thippareddi, Harshavardhan Food Scien	
	Biological Sciences		•
•	•	Sutter, Eli Mechanical & Mat	erials Engineering
Starace, Anthony	Physics and Astronomy	In-situ Electron Microscopy of DNA-guided Se and Reconfiguration of 3D Nanocrystal Sur	
	ast Atomic and Molecular ProcessesNSF	\$534,231	
\$360,000		Sutter, Peter Electrical and Com	
Steadman, James	Plant Pathology		•
	Future Innovation Lab for	Hybrid Materials by Integration of	
Collaborative	e Research on Grain Legumes	Semiconductor Nanowires and Layered C Chemical Transformations and Functional F	
\$392,749	AID through Michigan State University	\$500.000 NSF	Toperties
Urrea Florez, Carlos	Panhandle Research and Extension Center	Sutter, Peter Electrical and Com	nouter Engineering
Stevens, Jeffrey	Psychology/	Sutter, Peter Electrical and Con	nouter Engineering
	Center for Brain, Biology and Behavior	Exploring and Embracing Heterogen	
Similarity as a Process Model of Intertemporal Choice \$655,576NSF		in Atomically Thin Energy Material	
\$655,5/6	Computer Science and Engineering	\$600,000	
Soh, Leen-Kiat		Sutter, Eli Mechanical & Mat	terials Engineering
	contained brain, brokegy and behavior	Todoso Toorer	Natural December
Storz, Jay	Biological Sciences		Natural Resources
Causes of Parallel Molecular Evolution:		Seasonal Prediction of Hydro-Climatic Extremes in the Greater Horn of Africa under Evolving Climate Conditions	
Insights from Protein Engineering		to Support Adaptation Strategies	
\$262,752	NSF	\$987,767	NASA
Moriyama, Hideaki	Biological Sciences	Baigorria, Guillermo Agronomy	and Horticulture/ Natural Resources
Subbiah, Jeyam	Food Science and Technology/	Beyene, Shimelis	
	Biological Systems Engineering	Hayes, Michael	Natural Resources
	e Food Safety by Improving Development ion of Pasteurization Technologies	Wardlow, Brian	Natural Resources
	DA-NIFA through Michigan State University	Terry, Benjamin Mechanical & Mat	erials Engineering
		Development of a Gastrointestinal Lissue Attachi	ment Mechanism
	onal Game Simulations to Enhance	*Development of a Gastrointestinal Tissue Attachr \$250,000	
Understanding of Co	rn-Water Ethanol-Beef System Nexus	\$250,000	Progenity, Inc.
Understanding of Co \$999,644	rn-Water Ethanol-Beef System Nexus	\$250,000 En Route Care Patient Viability Technology D	Progenity, Inc. evelopment
Understanding of Co \$999,644 Chen, Jiajia	rn-Water Ethanol-Beef System NexusNSFFood Science and Technology	\$250,000	Progenity, Inc. evelopment
Understanding of Co \$999,644	rn-Water Ethanol-Beef System NexusNSFFood Science and TechnologyExtension	\$250,000	Progenity, Inc. evelopment Research Institute
Understanding of Co \$999,644	rn-Water Ethanol-Beef System NexusNSFFood Science and Technology	\$250,000. En Route Care Patient Viability Technology D \$308,015	Progenity, Inc. evelopment Research Institute Treatment
Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu Keshwani, Deepak Keshwani, Jenny Koelsch, Richard	rn-Water Ethanol-Beef System Nexus	\$250,000.  En Route Care Patient Viability Technology D \$308,015	evelopment Research Institute Treatment
Understanding of Co \$999,644	rn-Water Ethanol-Beef System NexusNSFFood Science and TechnologyExtensionBiological Systems EngineeringBiological Systems Engineering	\$250,000. En Route Care Patient Viability Technology D \$308,015	evelopment Research Institute Treatment

Tucker, Sh	Highway Paleontology Program
\$765,766	DOT-FHWA through Nebraska Department of Transportation
	ntegrated Experimental and Computational Approach to Discover Biomechanical Mechanisms of Leaf Epidermal Morphogenesis
\$312,282	Development of Improved Product Performance through Optimization and Modeling of Engineering Materials, Processing, and Function
	iper Invasions and Landscape Intervention Potential: A Statewide Assessment
	DOI-FWS through  Nebraska Game and Parks Commission  Matural Resources
\$638,252. Banerjee, S	*Donald Physics and Astronomy  *Detection of Buried and Hidden Explosives Using Laser-driven High-energy Electron BeamsDOD-Offutt Air Force Base-STRATCOM through National Strategic Research Institute SudeepPhysics and Astronomy uyuanPhysics and Astronomy
Banerjee, S	Ultra-low Emittance Electron Beams from Laser-Plasma Photo-cathodesNSF SudeepPhysics and Astronomy uyuanPhysics and Astronomy
Aeroe	roeke, Matthew Earth and Atmospheric Sciences cology as a Test-Bed for Interdisciplinary STEM Training NSF through University of Oklahoma
\$446,697 Hu, Qi	Quantifying the Relative Roles ressive Land Use Change, Irrigation, and Remote Forcing in Southern Great Plains Precipitation Variability

van Dijk, Karin  Engaging the Next Generation of Biochemists
\$599,096
Vu, Hiep Animal Science/Nebraska Center for Virology  *Development of a Broadly Protective Diva Marker Vaccine against Porcine Reproductive and Respiratory Syndrome Virus \$489,934
Determine the Correlates of Protection against Porcine Reproductive and Respiratory Syndrome Viruses Infection  \$477,635
Vuran, John  *SpecEES: CoSeC-RAN: Cognitive Secure Cloud RAN for Efficient Spectrum Sharing \$435,399.  *Supply Chain Management and Analytics Ryan, Jennifer.  Supply Chain Management and Analytics Ryan, Qiben.  *Computer Science and Engineering
NeTS: Small: 2G for UG: High Data-rate and Long-range Communication Techniques for Wireless Underground Networks \$450,000
NeTS: Small: Advancing Time Synchronization for Sustainable Wireless Networks \$500,000

Walia, Harkamal UNL-VBC Collaboration: Using Plant Phenomics to Capture Dynamic Growth Responses in Maize \$521,500
ABI Innovation: A Computational Framework for Integrating Image Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants  \$563,801
Walker, Judy Mathematics/Center for Science, Mathematics and Computer Education NSF INCLUDES: WATCH US — Women Achieving Through Community Hubs in the United States \$299,024
Walters, Cory  Northern Plains Regional Farm Business Management and Benchmarking Partnership \$893,788
Wang, Jian Mechanical & Materials Engineering Computational and Experimental Characterization of Twin-Twin Interactions in Hexagonal Metals \$388,037
Plasticity of High-strength Multiphase Metallic Composites \$250,018DOE through University of Michigan
Wang, Lily  Durham School of Architectural Engineering and Construction  Evidence-Based Interactions between Indoor Environmental Factors and Their Effects on K-12 Student Achievement  \$998,433
Bovaird, JamesEducational Psychology Lau, JosephineDurham School of Architectural Engineering and Construction Waters, ClarenceDurham School of Architectural Engineering and Construction

Waters, Brian	Agronomy and Horticulture
Discovering New Aspects of	
Controlled by t	the fefe Gene
\$452,000	USDA-NIFA
Weaver, Eric	Biological Sciences/
	Nebraska Center for Virology
Foundation Immunogens	
\$629,370	NIH-NIAID
Whitbeck, Les	Sociology
Stress and Type 2 Diabetes	
\$260,343	University of Minnesota Duluth
Crawford, Devan	Sociology
Hartshorn, Kelley	
, ,	37
White, Brett	Animal Science
Role of GnRH-II and Its Receptor	in Testicular Function of Swine
\$480,000	USDA-NIFA
Wiener, Richard	Psychology
Therapeutic Jurisprudence and	Probationer Decision Making:
A Social Cogr \$641,614	ntive Model
\$041,014	DOJ-NIJ
Wilson, Mark	Biochemistry
Biochemical Definition of L	
\$409,704	
Wilson, Richard	Plant Pathology
IOS: Molecular Mechanisms Conne	
with Magnaporthe oryzo	
\$570,000	NSF
Integrating Multi	inle Analyses to
Understand Gene Re	
\$496,000	

Witt-Swanson, Lindsey Sociology/ Bureau of Sociological Research	)
Behavioral Risk Factor Surveillance Survey and Adult Tobacco Survey	9
\$682,361	\ \ \ \
Gohring, Nicole Bureau of Sociological Research	Z
2016-2017 Student Health	)
and Risk Prevention Surveillance System \$292,847DHHS-SAMHSA through	
Nebraska Department of Health Meiergerd, Kimberly Bureau of Sociological Research	
Meiergerd, Kimberly Bureau of Sociological Research	
Wood, Charles Biological Sciences/Biochemistry/	
Nebraska Center for Virology  Comparative Virology Research Training Program	1
\$830,930NIH-NIAID	
Van Etten, James	
Wortmann, Charles  Developing and Fine-Tuning Fertilizer Recommendations within an Integrated Soil Fertility Management Framework	\$
\$444,228Alliance for Green Revolution in Africa through CABI	9
Wortman, Samuel Agronomy and Horticulture	
Leveraging Management to Speed Degradation of Bio-based Mulches in Soil	1
\$499,718 USDA-NIFA	9
Drijber, Rhae Agronomy and Horticulture	
Wragge, Annette Special Education and	
Communication Disorders	
	F
Nebraska Autism Spectrum Disorders Network,	
Nebraska Autism Spectrum Disorders Network, State Coordinator Project \$337,995 ED through Nebraska Department of Education	'
State Coordinator Project \$337,995 ED through Nebraska Department of Education	
\$337,995 ED through Nebraska Department of Education  Xiang, Shi-Hua  Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology	
State Coordinator Project \$337,995 ED through Nebraska Department of Education  Xiang, Shi-Hua  Veterinary Medicine and Biomedical Sciences/	3

\$461,983 Xu, Zheng	Food Science and Technology ing Aronia Berry Sustainability and Fruit Quality
Estimati	Computer Science and Engineering small: Exploring the Design Space of Bandwidth on Methods Using Packet Sequence Information
N	S: Small: Systematically and Scalably Testing etwork Programs under Packet Dynamics
Geophy \$332,941 CGV:	Computer Science and Engineering hCube IA: Optimal Data Layout for Scalable ysical Analysis in a Data-Intensive Environment
	Plant Pathology and Genomics of Pathogen Resistance in SwitchgrassUSDA-ARS through DOE
	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation USDA-NIFA anda Food Science and Technology
\$286,799	Assessment of the Role of MicroRNAs in Infant Formulas for Bone HealthGerber Foundation
	Plant Pathology  Role of Organelle-localized Lys63-linked  Ubiquitination in Plant Immunity

Zeng, Xiao	Chemistry
•	ficient Next-Generation Solar Cells
	lean Energy Revolution NSF through Brown University
Hong, Xia	Physics and Astronomy
Zhu, Jinying	Civil Engineering
0 )	tem for Concrete Structures
,	i-Silica Reaction (ASR)
\$800,000	DOE
Zuhlke, Craig	Electrical and Computer Engineering
*Fundamental Studies on F	unctionalizing Metallic Surfaces
*Fundamental Studies on F with Applications to Enhanced	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction;
*Fundamental Studies on F with Applications to Enhanced Novel Po	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction; ower Sources
*Fundamental Studies on F with Applications to Enhanced Novel Po	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction; ower Sources tt Air Force Base-STRATCOM through
*Fundamental Studies on F with Applications to Enhanced Novel Po \$382,098DOD-Offu	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction; ower Sources tt Air Force Base-STRATCOM through National Strategic Research Institute
*Fundamental Studies on F with Applications to Enhanced Novel Pc \$382,098DOD-Offu  Alexander, Dennis	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction; ower Sources tt Air Force Base-STRATCOM through National Strategic Research Institute Electrical and Computer Engineering
*Fundamental Studies on F with Applications to Enhanced Novel Po \$382,098DOD-Offu  Alexander, Dennis	unctionalizing Metallic Surfaces Heat Transfer and Drag Reduction; ower Sources tt Air Force Base-STRATCOM through National Strategic Research Institute

# **Early Career Awards**

Active awards, July 1, 2017–June 30, 2018

\* Indicates new in 2017–2018

## **NSF CAREER Grants**

National Science Foundation CAREER grants are awarded only to untenured junior faculty. These 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.



# Bartelt-Hunt, Shannon Civil Engineering CAREER: The Influence of Soil Attachment on the Biologic Activity of Extracellular Proteins \$413,883 .......NSF



# Bassett, Gilles Agronomy and Horticulture/Biochemistry/ Center for Plant Science Innovation CAREER: The Metabolism of Prenylated Benzoquinones through the Lens of Plant-Prokaryote Phylogenomics











Hong, Xia









Montooth, Kristi
Biological Sciences
CAREER: The Physiology and Genetics of
Adaptation in a Complex Environment
\$683,365.....NSF





Neta, Maital
Psychology
\*CAREER: Functional Brain Networks
Mediating Positivity Bias in Healthy Aging
\$756,711......NSF



Pannier, Angela
Biological Sciences
CAREER: Nanostructured Thin Films for
Substrate-Mediated Gene Delivery
\$419,051 .......NSF





Rao, Prahalada
Mechanical & Materials Engineering
\*CAREER: Smart Additive Manufacturing
\$500,000......NSF









Wei. Shena



Xu, Xiaoshan
Physics and Astronomy
CAREER: Hexagonal Ferrite Thin Films for the HighTemperature Magnetoelectric Memory Effect
\$591,256 .......NSF





# **Air Force Young Investigator Program**

YIP awards support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research.



# **Department of Energy Early Career Research Program**

DOE's Early Career Research Program supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.



# Arts and Humanities Awards \$250,000 or More

Active awards, July 1, 2017-June 30, 2018

\* Indicates new in 2017-2018

# Heitman, Carolyn

#### Anthropology/Center for Digital Research in the Humanities



With a \$300,000 National Endowment for the Humanities grant, anthropologist Carrie Heitman is part of a team of researchers who are digitizing about 1.5 million photographs, field notes and other records generated during 1970s and 1980s excavations of the 1,000-year-old Salmon Pueblo in northwestern New Mexico. The Chaco Research Archive,

which Heitman directs, will house the digitized records. Digital access will allow researchers to explore more fully this historically and culturally significant community. Collaborators are the Salmon Ruins Museum, Archaeology Southwest, Nebraska's Center for Digital Research in the Humanities and the University of Virginia's Institute for Advanced Technology in the Humanities, home to the Chaco Research Archive

# Jacobs, Margaret

# History/Center for Digital Research in the Humanities

\*Genoa Indian School Digital Reconciliation Project \$290,123.............. Council on Library and Information Resources 06/01/2018 – 05/31/2020 Lorang, Elizabeth.......Center for Digital Research in the Humanities



With funding from the Council on Library and Information Resources, Margaret Jacobs, professor of history and director of the Women's and Gender Studies program, and Elizabeth Lorang, associate professor of University Libraries, have launched a project to compile, digitize and make accessible records and other materials from the Genoa

Indian Industrial School in Nebraska, one of more than 150 boarding schools designed to assimilate indigenous American people into Euro-American culture near the end of the 19th century. They are working closely with Nancy Carlson and the Genoa U.S. Indian School

Foundation in Genoa. The university's Center for Digital Research in the Humanities will host the Genoa Indian School Digital Reconciliation Project. In order to move the project forward with sensitivity and respect, Jacobs and Lorang are working with an advisory council that includes representatives from the Ponca, Pawnee, Omaha and Winnebago nations and UNITE, the university's Native American student group.

# Jewell, Andrew Center for Digital Research in the Humanities



The National Endowment for the Humanities is supporting the work of Andrew Jewell, associate professor of libraries in the Center for Digital Research in the Humanities, to digitally publish the complete correspondence of Willa Cather on the open-access Willa Cather Archive (cather.unl.edu). Publication on the archive will allow interoperation of the

edition with other Cather documents (photographs, texts, published scholarship and archival materials) and wide accessibility as data for humanities scholars doing various kinds of research. When finished, The Complete Letters of Willa Cather will bring unprecedented access to the revealing personal voice of one of the most important figures in American literary history and will dramatically expand the body of Cather materials available to scholars, teachers, students and general readers.

# Kooser, Ted English American Life in Poetry Project

\$491,885 ...... Poetry Foundation 1/1/05 – 12/31/18



The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry Project, an initiative of Ted Kooser, the 2004-2006 Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and online publications featuring a poem written by a

contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the English department, where the project office is located.

# Lorang, Elizabeth Center for Digital Research in the Humanities



The Image Analysis for Archival Discovery (Aida) research team investigates the use of image analysis to identify, describe and retrieve information from digital libraries and other digitized collections. Using machine learning, Elizabeth Lorang, associate professor of University Libraries, and colleagues in the Center for Digital Research in the Humanities

are building an intelligent computational system that can recognize visual cues in digital images and identify similar content in new images. Digital images created by libraries, archives, museums and other groups represent a largely underutilized digitized cultural record – particularly digital images of textual materials. One goal of the project is to develop a new digital collection using the extracted content.

## Shear, Donna

#### University of Nebraska Press

Recovering Languages and Literacies of the Americas:
A Collaborative Initiative



This \$781,900 grant from the Andrew W. Mellon Foundation gives the University of Nebraska Press, along with the University of Oklahoma Press and the University of Texas Press, resources to help linguistic scholars publish indigenous language grammars and dictionaries, literacy studies, ethnographies and other linguistic monographs. Twenty-seven

books – nine from each press – will be published on the grammar and literacy of endangered languages. The initiative also aims to generate broader interest in linguistic monographs and to find more efficient, cost-effective ways to produce monographs. These publications are important resources for academics in the fields of linguistics, indigenous studies and social sciences, and to communities wishing to preserve their language and culture, said Donna Shear, University of Nebraska Press director, who is leading this collaboration.

#### Walter, Katherine

## University Libraries/Center for Digital Research in the Humanities



The Nebraska Digital Newspaper Project selects, digitizes and provides access to historically significant Nebraska newspapers, as well as ethnic titles, representing geographic, political, and social breadth. These titles will be accessible through Chronicling America at the Library of Congress and through Nebraska Newspapers, our state newspaper site.

#### Wisnicki, Adrian

# English/Center for Digital Research in the Humanities



Adrian Wisnicki, assistant professor of English and spectral imaging specialist at the Center for Digital Research in the Humanities, leads Livingstone Online, http://livingstoneonline.org, a large multi-institutional project to update the digital home for Livingstone's manuscripts. Wisnicki and colleagues are collaborating with more than 30 archives worldwide, developing a

sustainable digital platform, and conducting scholarship and outreach activities. More than \$430,000 in grants from the National Endowment for the Humanities fund Wisnicki's Livingstone work.

# Arts and Humanities Awards \$50,000 to \$249,999

Active awards, July 1, 2017-June 30, 2018

<sup>\*</sup> Indicates new in 2017–2018

Barker, Bradley Library Innovation Studios: Transfo \$236,771IMLS through Boeckner, LindaFarritor, ShaneMecha Hancock, ConniePanhandle F Narjes, Charlotte	Nebraska Library CommissionExtension anical & Materials Engineering Research and Extension Center
Cohen, Matt  *Walt Whitman's A	English/Center for Digital Research in the Humanities
\$125,961	English/Center for Digital Research in the Humanities
*African Poetry Digital Structure of the Control of	Ford Foundation
*African American Homesteaders \$168,274	Historic Resource Study
Jockers, Matthew  Text Mining the Establishing the Foundations \$112,524	of a New Discipline
Price, Kenneth	McGill University  English/Center for Digital Research in the Humanities
Unearthing the "Buried Masterpiec A Digital Variorum of the 18 \$300,000	e" of American Literature: 55 <i>Leaves of Grass</i>

# Richards-Rissetto, Heather

# Anthropology/Center for Digital Research in the Humanities

	osing of 3D Data in the Humanities
	NEH
Walter, Katherine	Center for Digital Research in the Humanities
Walter. Katherine	Center for Digital Research in the Humanities
Walter, Katherine From Prairie to	Center for Digital Research in the Humanities o Palace: Buffalo Bill's Wild West in Europe

Keeping Data Alive: Supporting Reuse and

# **Arts and Humanities Awards** \$5,000 to \$49,999 Active awards, July 1, 2017–June 30, 2018

Dombrowski, KirkSociologyLooking Past Skin: Nebraska Immigration Today and Yesterday\$6,500Humanities NebraskaMatthews, KimSociology
Engen-Wedin, Nancy Lied Center for Performing Arts  *Seedfolks: Growing Our Community through Theater \$15,000
Hoff, Michael Art, Art History and Design Antiochia ad Cragum Excavations: 2017 Season \$30,000
James, Michael  Robert Hillestad Textiles Gallery \$10,000 Pearle Francis Finigan Foundation
Historic Costume Collection \$6,000Friends of the Hillestad Textiles Gallery
Jewel, Andrew  *My Ántonia at 100: The Ongoing Story \$6,930 Humanities Nebraska Rau, Emily Center for Digital Research in the Humanities
Jones, Patrick  *The Classroom and the Future of the Historical Record: Humanities Education in a Changing Climate for Knowledge Production \$41,906
Nicholas, Claire  *Crafting Culture in the Middle of Everywhere: An Arts-Based Project on Intercultural Empathy Building and Entrepreneurship \$9,561

Poor, Erin	<b>Lied Center for Performing Arts</b> *Dance & Dialogue: Expanding Cultural
\$20,000 Engen-Wedin, l	Understanding through Hip HopNEA NancyLied Center for Performing Arts
Price, Kenneth  Fame and \$29,233	English/Center for Digital Research in the Humanities Infamy: Walt Whitman's Old-Age Correspondence National Historical Publications and Records Commission through University of Iowa
ac	English and East and West: Exchanges and Interactions cross the Early Modern World (1400-1800)
Seaton, Melynt Conter \$8,000	<b>Center for Great Plains Studies</b> nporary Indigeneity 2016: Spiritual BorderlandsWoods Charitable Fund
	Public Policy Center coln Reads Aloud: A Collective Impact Model Institute of Museum and Library Services through Lincoln Community Foundation
<b>Shear, Donna</b> \$30,100	University of Nebraska Press  Early American RegionsUniversity of Georgia
<b>Smith, Harris</b> \$15,000	Johnny Carson School of Theatre and Film *Nebraska Repertory Season Support
\$7,500	Nebraska Rep Relaunch Cooper Foundation
	Teaching, Learning and Teacher Education *Coaching Preschool Teachers to Ask ligher-Level Questions in Dialogic Reading

<sup>\*</sup> Indicates new in 2017–2018



Pioneering Partnerships for Innovation

NUtech Ventures' mission is to facilitate the commercialization and practical use of innovations generated through the research activities at the University of Nebraska–Lincoln. We do this by identifying, evaluating, protecting, marketing and licensing the university's intellectual property to promote economic development and improve the quality of life.

# Patents Issued in 2017-2018

Recognition for faculty and other university personnel who received patents for their inventions July 1, 2017–June 30, 2018

#### Christian Binek, Kirill Belashchenko, Peter A. Dowben, Alex Wysocki, Sai Mu. Mike Street

Physics and Astronomy

Title: Magnetoelectric Chromia Having Increased Critical

Temperature

Date: 8/1/2017

Number: 9718700

Country: United States

# Chin Li "Barry" Cheung, Zane Gernhart

Chemistry

Title: Synthesis of Cerium Oxide Nanorods

Date: 8/22/2017 Number: 9738541 Country: United States

# Mark Dean Christenson, Steven Douglas Comfort

College of Agricultural Sciences and Natural Resources

Title: Modular Oxidant Delivery System

Date: 3/27/2018 Number: 9925574 Country: United States

#### Carrick Detweiler, Sebastian Elbaum, David J. Anthony

Computer Science and Engineering

Title: Crop Height Estimation with Unmanned Aerial Vehicles

**Date:** 5/14/2018 **Number:** 9969492 **Country:** United States

#### Patrick H. Dussault, Rebecca Y. Lai, Thomas Fisher, Anita Zaitouna

Chemistry

Title: Self-Assembled Monolayers and Methods for Using the Same in

Biosensing Applications Date: 11/28/2017 Number: 9829487 Country: United States

#### **Yuris Dzenis**

Mechanical & Materials Engineering

Title: Method of Fabricating a Continuous Nanofiber

Date: 4/24/2018 Number: 9951444 Country: United States

## Shane M. Farritor, Thomas Frederick, Joe Bartels

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices Relating to Surgical End

Effectors

Date: 7/14/2017 Number: 6174017 Country: Japan

# Shane M. Farritor, Amy Catherine Lehman, Mark Rentschler

Mechanical & Materials Engineering

Title: Multifunctional Operational Component for Robotic Devices

Date: 2/6/2018 Number: 9883911 Country: United States

# Shane M. Farritor, Thomas Frederick, Joe Bartels, Kearney Lackas, Jacob Greenburg

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices Relating to Force Control

Surgical Systems

Date: 2/13/2018

Number: 9888966

Country: United States

# Shane M. Farritor, Amy Catherine Lehman, Mark Rentschler, Nathan Wood, Adam Bock, Reed Prior

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices for Surgical Visualization and

Device Manipulation Date: 2/14/2018 Number: 3072640

Country: Italy, Ireland, United Kingdom, France, Europe, Switzerland

Number: 602007053938.19995

**Country:** Germany

# Shane M. Farritor, Dmitry Oleynikov, Jason James Dumpert, Amy Catherine Lehman, Stephen R. Platt, Mark Rentschler

Mechanical & Materials Engineering; Surgery (UNMC)

Title: Magnetically Coupleable Robotic Devices and Related Methods

**Date:** 2/27/2018 **Number:** 2861159 **Country:** Canada

# Shane M. Farritor, Thomas Frederick, Joe Bartels, Eric Markvicka, Jack Mondry

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices Related to Robotic Surgical

Devices, End Effectors, and Controllers

Date: 8/29/2017 Number: 9743987 Country: United States

# Shane M. Farritor, Joe Bartels, Thomas Frederick

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices Relating to Surgical End

Effectors

Date: 9/12/2017 Number: 9757187 Country: United States

# Shane M. Farritor, Yutaka Tsutano, Jason James Dumpert, Erik Mumm, Philip Chu, Nishant Kumar

Computer Science; Mechanical & Materials Engineering

Title: Robotic Surgical Devices, Systems, and Related Methods

Date: 9/26/2017 Number: 9770305 Country: United States

# Shane M. Farritor, Thomas Frederick, Eric Markvicka, Jack Mondry, Joe Bartels

Mechanical & Materials Engineering

Title: Local Control Robotic Surgical Devices and Related Methods

**Date:** 10/20/2017 **Number:** 6228196 **Country:** Japan

# Shane M. Farritor, Dmitry Oleynikov, Jason James Dumpert, Amy Catherine Lehman, Stephen R. Platt, Mark Rentschler, Nathan Wood

Mechanical & Materials Engineering; Surgery (UNMC)

Title: Magnetically Coupleable Robotic Devices and Related Methods

**Date:** 6/13/2018 **Number:** 2397101

Country: Europe, Ireland, France, Switzerland, United Kingdom,

Germany

# Ming Han, Weilin Hou, Guigen Liu

Mechanical & Materials Engineering; Electrical and Computer

Engineering

Title: Fiber-Optic Temperature and Flow Sensor System and Methods

Date: 6/12/2018 Number: 9995628 Country: United States

# Edward N. Harris, Jian Liu, Robert J. Linhardt, Yongmei Xu

**Biochemistry** 

Title: Reversible Heparin Molecules and Methods of Making and

Using the Same

Date: 4/24/2018

Number: 9951149

Country: United States

## Jinsong Huang, Yongbo Yuan

Mechanical & Materials Engineering

Title: Floating-Gate Transistor Photodetector

**Date:** 10/10/2017 **Number:** 9786857 **Country:** United States

# Jinsong Huang, Qingfeng Dong

Mechanical & Materials Engineering

Title: Systems and Methods for Fabricating Single Crystal Photovoltaic Perovskite Materials and Devices Incorporating the

Same

Date: 11/7/2017 Number: 9812660 Country: United States

## Jinsong Huang, Zhengguo Xiao

Mechanical & Materials Engineering

Title: Compositionally Graded Bulk Heterojunction Devices and

Methods of Manufacturing the Same

Date: 5/29/2018 Number: 9985231 Country: United States

# Haorong Li, Yanshun Yu, Daihong Yu

Durham School of Architectural Engineering and Construction

Title: Gas Generation Date: 8/1/2017 Number: 9719062 Country: United States

# Sally Mackenzie, Roberto de la Rosa Santamaria

Agronomy and Horticulture

Title: Plants With Useful Traits and Related Methods

Date: 7/18/2017 Number: 9708672 Country: United States Date: 9/21/2017 Number: 2012250879 Country: Australia

#### Carl A. Nelson

Mechanical & Materials Engineering

Title: Shape-adaptive Mechanism for Robotic Grasping

Date: 8/8/2017 Number: 9724833 Country: United States

## Stephen R. Platt, Shane M. Farritor, Amy Catherine Lehman, Mark Rentschler, Jeff Hawks

Mechanical & Materials Engineering

Title: Methods and Systems of Actuation in Robotic Devices

**Date:** 12/1/2017 **Number:** 6250496 **Country:** Japan

# Stephen R. Platt, Shane M. Farritor, Amy Catherine Lehman, Mark Rentschler, Jeff Hawks

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices for Surgical Access and

Procedures

Date: 5/1/2018

Number: 9956043

Country: United States

# Wei Qiao, Zhe Zhang, Liyan Qu

**Electrical and Computer Engineering** 

Title: Direct Torque Control of AC Electric Machines

**Date:** 11/28/2017 **Number:** 9831812 **Country:** United States

## Wei Oiao. Long Wu. Yue Zhao

**Electrical and Computer Engineering** 

*Title:* Drive Systems Including Sliding Mode Observers and Methods

of Controlling the Same *Date:* 6/26/2018 *Number:* 10008966 *Country:* United States

# Scott K. Rosenbaugh, Jennifer D. Schmidt, Robert W. Bielenberg, Ronald Faller, Karla A. Lechtenberg, John D. Reid, Jim Holloway

Midwest Roadside Safety Facility

*Title:* System Including Adjustable Continuity Joints and/or Rotation Mitigation Sliding Posts for Rail Elements

Date: 5/22/2018 Number: 9976266 Country: United States

# Mathias Schubert, Tino Hofmann, Daniel Schmidt, Patrick H. Dussault, Rebecca Y. Lai, Andrea Holmes

Electrical and Computer Engineering; Chemistry

*Title:* Optical Sensing and Separation Method Based on Ordered

3-Dimensional Nanostructured Surfaces

Date: 8/22/2017 Number: 9739710 Country: United States

# Blair Siegfried, Kenneth Narva, Kanika Arora, Sarah Worden, Chitvan Khajuria, Elane Fishilevich, Nicholas Storer, Meghan Frey, Ronda Hamm, Ana Velez

Entomology

Title: Parental rNAI Suppression of Hunchback Gene to Control

Hemipteran Pests

Date: 6/12/2018

Number: 9994844

Country: United States

# Mehmet C. Vuran, Xin Dong, David J. Anthony

Computer Science and Engineering

Title: Antenna for Wireless Underground Communication

Date: 12/5/2017

Number: ZL201380043937.0

Country: China

# 2017-2018 License Agreements

Recognition for faculty whose technologies formed the basis of licensing agreements with industry partners July 1, 2017–June 30, 2018

# **David Andrews**

Agronomy and Horticulture

Technology: Natural Purple Food Colorant

# P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn, Richard Little

Agronomy and Horticulture

**Technology:** Double Haploid Wheat

Technology: Wheat Variety

# P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn

Agronomy and Horticulture *Technology:* Triticale Varieties

# P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn, Richard Little, Chris Hoagland

Agronomy and Horticulture Technology: Triticale Varieties

# Robert Bielenberg, Jim Hollowy, John D. Reid, Karla A. Lechtenberg, Ronald Faller, Scott K. Rosenbaugh, Jennfier D. Schmidt

Midwest Roadside Safety Facility; Mechanical & Materials

Engineering

Technology: Concrete Beam Technologies (2 licenses)

#### Paul Blum, Beniamin Pavlik, Kevin Van Cott

Biological Sciences; Chemical and Biomolecular Engineering

Technology: Pain Medication Delivery System

# Nic Colgrove, Leen-Kiat Soh, Jamie Loizzo, Lisa Pytlik Zillig, Tim Svoboda, Jamie Morrissey, Joan Curran

IANR Media; Computer Science and Engineering; Agricultural Leadership, Education and Communication; Psychology

**Technology:** Social Learning App

# Carrick Detweiler, Sebastian Elbaum, John-Paul Ore, Baoliang Zhao, David J. Anthony, Craig Allen, Evan Beachly, James Higgins, Christian Laney, Dirac Twidwell

Computer Science and Engineering; Mechanical & Materials Engineering; Nutrition and Health Sciences; Agronomy and

Horticulture

**Technology:** Drone Technology

# Achim Dobermann, Daniel T. Walters, Haishun Yang, Patricio Grassini, Kenneth G. Cassman, Tri Setiyono, James Han, Dharmic Payyala

Agronomy and Horticulture *Technology:* Software

## Achim Dobermann, Daniel T. Walters, Haishun Yang, Patricio Grassini, Kenneth G. Cassman

Agronomy and Horticulture *Technology:* Hybrid Maize

# George L. Graef

Agronomy and Horticulture

**Technology:** Soybean Variety (6 licenses)

#### Jinsong Huang, Qingfeng Dong, Yuchuan Shao

Mechanical & Materials Engineering

**Technology:** Solar Cell Technology (2 licenses)

# David Jackson, Deepak Sahai

Food Science and Technology

**Technology:** Process for Nixtamalization of Cereal Grains

#### **Matthew Jockers**

English

Technology: Novel Classifier

#### William Kreuser

Agronomy and Horticulture *Technology:* Greenkeeper App

## Yuguo Lei, Hendrik Viljoen

Chemical and Biomolecular Engineering

**Technology:** Cell Culture Technology

# Sally Mackenzie

Agronomy and Horticulture

Technology: Methods of Producing Hybrid-like Seed Lots

#### **Carl Nelson**

Mechanical & Materials Engineering

Technology: ICARE

# Benjamin S. Terry, Pengbo Li, Wanchuan Xie, Alfred Tsubaki, Weston Lewis

Mechanical & Materials Engineering

Technology: Smart Pill Technology

# Jens Walter, Robert Hutkins, Thomas E. Burkey

Food Science and Technology; Animal Science

Technology: Probiotic

## Yiqi Yang

Textiles, Merchandising and Fashion Design

Technology: Methods of Enhancing Dyeability of Polymers

# Sherif Yehia, Bing Chen, Christopher Tuan, Lim Nguyen

Electrical and Computer Engineering; Civil Engineering

Technology: Conductive Concrete

# Janos Zempleni

Nutrition and Health Sciences

Technology: Method of Using Exosomes for Targeted Delivery

# **Creative Activity**

Faculty who created, performed or produced works in the fine and performing arts and architecture, television and film, or digital/software design, nationally or internationally, July 1, 2017–June 30, 2018

Submitted by faculty, chairs/heads or deans

# Byron Anway Art, Art History and Design

Artist, painting. "Untitled 3 (spring)." Untitled 13, SooVAC's 13th Annual Juried Exhibition, Soo Visual Arts Center, Minneapolis, MN.

Artist, painting. Multiple works. Sexy/OFFENDER, Wartburg College, Waverly, IA.

Artist, painting. "Mob Scenes." Exhibition, Kishwaukee Community College, Malta, IL.

Artist, painting. Multiple works. Gatherings, Bunker Center for the Arts, Kansas City, MO.

# Stacy Asher Art, Art History and Design

Designer. "Walls Turned Sideways: Artists Confront the Justice System Exhibition." Commissioned publication design for art exhibition catalogue. Contemporary Arts Museum Houston, Houston, TX.

Artist. "Meat/Meet/Mete: A Reflection on Consumption." Art/video installation and reception. Department of Art, Art History & Visual Studies, Duke University, Durham, NC.

# John R. Bailey Glenn Korff School of Music

Conductor. International Flute Orchestra concert tour of Portugal. Teatro Thalia, Lisbon; Conservatório de Música do Porto, Porto; Teatro Académico Gil Vicente, Coimbra.

# Karen A. Becker Glenn Korff School of Music

Performer, cello. "Viennese String Trios (music of Richard von Perger and Julius Zellner)." CD release of the Concordia String Trio: Marcia Henry Liebenow, violin; Leslie Perna, viola; Karen Becker, cello (Centaur Records). Recorded in Kimball Recital Hall, Lincoln, NE.

# Wesley Broulik Johnny Carson School of Theatre and Film

Performer. "As You Like It by William Shakespeare." Saratoga Shakespeare Company in Historic Congress Park, Sarasota Springs, NY.

# Jamie Bullins Johnny Carson School of Theatre and Film

Director. "Everyone's Carol." Morgan Library and Museum, New York. NY.

Designer. "Ghastly Dreadfuls." Center for Puppetry Arts, Atlanta, GA.

# Michael Burton Textiles, Merchandising and Fashion Design

Director. "Anna." Animation/short film. New Media Film Festival, James Bridges Theater, UCLA, Los Angeles, CA.

# Santiago Cal Art, Art History and Design

Artist, sculpture and drawing. "Santiago Cal: Sculpture and Drawing." Solo exhibition. Nordstand Gallery, Wayne State University, Wayne, NE.

Artist, video. "Pockets for Mars." 3rd International Bodrum Biennial, Bodrum Kalesi, Bodrum, Turkey.

# Wheeler Winston Dixon English/Film Studies

Artist, video. "Liminal Ethereal Space," with Bill Domonkos and Gwendolyn Audrey Foster. Invited screening. Museum of Human Achievement, Austin, TX.

Artist, video. "New Video Works," with Gwendolyn Audrey Foster. Invited artist residency. University of Nevada, Las Vegas, NV.

Artist, video. "Artistic Couples," with Irena Izabela Imanska, Witold Stypa and Gwendolyn Audrey Foster. Invited screening and lecture. Jerzy Harald Concert Studio, Polski Radio, Katowice, Poland.

Artist, video. "Gwendolyn Audrey Foster/Wheeler Winston Dixon: New Video Works." Invited gallery show. BWA Contemporary Art Gallery. Katowice. Poland.

# Gwendolyn Audrey Foster English/Film Studies

Director. Invited screening of various films. Atrabilious Film Festival, Filmhuis Cavia, Amsterdam, The Netherlands.

Director. "Gwendolyn Audrey Foster: New Video Works." Complete film retrospective, BWA Contemporary Art Gallery, Katowice, Poland.

Director. "The Experimental Films of Gwendolyn Audrey Foster." Complete retrospective. Museum of the Future, Berlin, Germany.

Director. "Short Films of Gwendolyn Audrey Foster." Invited and featured video artist. Festival X-12, Gainsborough, United Kingdom.

Director. "Sleeping With the Fishes." International Studio 44 Film Festival, Studio 44 Gallery, Stockholm, Sweden.

Director. "cul-de-sac." Video Library P'Silo, Videodrome Art & Essay Video Library, Marseilles, France.

Director. "Films of Gwendolyn Audrey Foster." Virtual one-woman show. Lys d'Or International Art Gallery, Rome, Italy.

Director. Two short films. Virtual gallery presentation. Global Warming & Water Wars: Visions of the Future, Lys d'Or International Art Gallery, Rome, Italy.

Director. "A Film for Chantal Akerman." Virtual online screening. The Pythians: Art, Photography and Video, New York, NY.

Director. Three films selected for exhibition and screening. Kingdom of the Rose: Homage to the Female Figure, Lys d'Or Art Gallery, Rome, Italy.

Director. "Liminal Ethereal Space: Foster/Dixon/Domonkos: Experimental Films." The Museum of Human Achievement (MoHA), Austin, TX.

Artist, video. "Artistic Couples," with Irena Izabela Imanska, Witold Stypa and Wheeler Winston Dixon. Invited film screening and lecture. Jerzy Harald Concert Studio, Polski Radio/TV, Katowice, Poland.

# Dana Fritz Art, Art History and Design

Artist, photography. Selections from "Terraria Gigantica." IN VIVO: The Nature of Nature Museum, Belvedere, Heerenveen, The Netherlands.

Artist, photography. Selections from "Terraria Gigantica" and "Views Removed." Nature, So-Called, Bryn Mawr College, Bryn Mawr, PA.

Artist, photography. Selections from "Terraria Gigantica." Terraria Gigantica: The World under Glass, Duluth Art Institute, Duluth, MN.

# Hye-Won Hwang Glenn Korff School of Music

Performer, dance. "Time Warp: An Intercontinental Dialogue (Sambalpuri-Bach collaboration)." University of Vermont, Burlington, VT.

# Michael F. James Textiles, Merchandising and Fashion Design

Artist, mixed media textile constructions. "India Through Beginner's Eyes: New Textiles by Michael James." Modern Arts Midtown, Omaha, NE.

# Karen Kunc Art, Art History and Design

Artist, prints and artists books. "Invisible Cities Project" and solo exhibition. Palazzo Ca' Zenobio, Venice, Italy.

Artist, prints and artists books. "Fragment Encounters." IMPACT 10 International Print Conference, Museum of Prehistory and Anthropology of Cantabria, Santander, Spain.

Artist, prints. "6 Print Works." When Continents Meet 2, La Capital Galerie. Paris. France.

## Tom Larson

#### Glenn Korff School of Music

Composer. "Healing of Harman." Film produced by Johnny Carson School of Theater and Film, University of Nebraska–Lincoln, Lincoln, NE.

Composer. "Follow the Water." Documentary produced by NET, Lincoln. NE.

# Tom Lynch English

Writer. "Loren Eiseley's Nebraska." Digital story map, hosted by Center for Digital Research in the Humanities: https://cdrhsites.unl.edu/eiseley/, University of Nebraska–Lincoln, Lincoln, NE.

## JD Madsen Johnny Carson School of Theatre and Film

Scenic designer. "Abigail/1702." The Nebraska Repertory Theater, Lincoln, NE.

# Bernard R. McCoy Broadcasting

Producer and director. "Black Jack Pershing: Love and War."

Documentary screenings: Mary Riepma Ross Media Arts Center,
University of Nebraska-Lincoln, Lincoln, NE; Metropolitan Club,
Washington, D.C.; NET, Nebraska Public Media, Lincoln, NE; National
World War I Museum and Memorial, Kansas City, MO; National
Archives and Records Administration, Washington, D.C.; York College,
York, NE; General Pershing Boyhood Home State Park, Laclede, MO.

Website designer. "PBS Learning Media – Black Jack Pershing: Love and War." NET, Lincoln, NE.

# William W. McMullen Glenn Korff School of Music

Performer, oboe. "A Program of French Oboe Music." Glidden Recital Hall, Ohio University School of Music, Athens, OH.

Performer, oboe. "An Evening of French Oboe Music." Voxman Music Building, Recital Hall, University of Iowa, School of Music, Iowa City, IA.

# J. Ron Nelson Special Education and Communication Disorders

App developer. "First Steps to Reading Fluency." Produced by the University of Nebraska–Lincoln, Lincoln, NE.

#### Andrew S. Park Johnny Carson School of Theatre and Film

Director. "Aquatic Show." John G. Shedd Aquarium, Chicago, IL.

Director. "Shakespeare's Cymbeline." Illinois Shakespeare Festival, Bloomington, IL.

# Guy J. Reynolds English/Cather Project

Producer, with Beth Burke. "Prairie Songs: Remembering Ántonia." Group performance featuring piano, voice, violin. Society for the Study of American Women Writers Academic Conference, Bordeaux, France.

# Laurel Shoemaker Johnny Carson School of Theatre and Film

Lighting designer. "Abigail/1702." Carson Theatre, Lied Center, Lincoln, NE.

Lighting designer. "Avenue Q." Carson Theatre, Lied Center, Lincoln, NE.

Lighting designer. "Dance Gala, 2017." School of Dance, University of Iowa, Hancher Auditorium, Iowa City, IA.

# Francisco Souto Art, Art History and Design

Artist, prints. "Memory Surface." Imprint Two 2018, National Biennial Print Invitational, The Vam Gallery, Austin, TX.

Artist, drawings. "'Poetics # 2' from the series Poetics of Recognition." Monarchs: Brown and Native Contemporary Artists in the Path of the Butterfly, Museum of Contemporary Art North Miami, Miami, FL.

Artist, drawings. "Memory in Peril." Omar Alonso Gallery, Puerto Vallarta, Mexico.

Artist, drawings. "GraphitGrau." Prints and Drawing Room: Francisco Souto, Till Richter Museum of Contemporary Art, Buggenhagen, Germany.

# Colleen Syron Art, Art History and Design

Designer. "Sober Skipper." National public service campaign. All media, all cities, all states.

# David von Kampen Glenn Korff School of Music

Composer. "Flood the Gold Earth" for SATB chorus and piano. Chicago, IL: Walton Music.

Composer. "The Kansas-Nebraska Act: Music for Small Jazz Ensemble." Digital album.

# Sandra Williams Art, Art History and Design

Artist, mixed media. "Ukuku, and Subterranean Fires." Solo exhibition. Wild Things: Nature and the Social Imagination, Clayton Staples Gallery, Wichita, KS; E.B. White Gallery, El Dorado, KS; The Lux Center for the Arts, Lincoln, NE.

Artist, mixed media. "Manufactured Animals." So Long, Farewell, Washington Pavillion Center for the Arts, Sioux Falls, SD.

Artist, painting. "City Studio: Artist in Public Life in El Cerro, Naranjito, San Juan, Puerto Rico." Mural Corridor, El Cerro, San Juan, Puerto Rico.

# Adrian S. Wisnicki English

Director. "Livingstone's Final Manuscripts (1865-1873): Diaries, Journals, Notebooks, and Maps: A Critical Edition." Digital museum and library, http://www.livingstoneonline.org.

# **Books**

Faculty who wrote or edited books published July 1, 2017–June 30, 2018 Submitted by faculty, chairs/heads or deans

Marco Abel English

Editor, with Jaimey Fisher. *The Berlin School and Its Global Contexts: A Transnational Art Cinema*. Detroit, MI: Wayne State University Press.

#### Grace Bauer English/Women's and Gender Studies

Editor, with Julie Kane. Nasty Women Poets: An Unapologetic Anthology of Subversive Verse. Sandpoint, ID: Lost Horse Press.

# Brian H. Bornstein Psychology/Law

Author. Popular Myths about Memory: Media Representations versus Scientific Evidence. Lanham, MD: Lexington Books.

Author, with Edie Greene. *The Jury under Fire: Myth, Controversy, and Reform.* New York, NY: Oxford University Press.

#### Dawn O. Braithwaite Communication Studies

Editor, with Elizabeth A. Suter, Kory Floyd. *Engaging Theories in Family Communication: Multiple Perspectives (2nd ed.)*. New York, NY: Routledge.

# Elaine Chan Teaching, Learning and Teacher Education

Editor, with Vicki Ross, Dixie Keyes. Crossroads of the Classroom: Narrative Intersections of Teacher Knowledge and Subject Matter. Bingley, UK: Emerald Publishing Group Ltd.

# Bertrand S. Clarke Statistics

Author, with Jennifer L. Clarke. Predictive Statistics: Analysis and Inference Beyond Models. Cambridge, UK: Cambridge University Press

# Jennifer L. Clarke Food Science and Technology/Statistics

Author, with Bertrand S. Clarke. *Predictive Statistics: Analysis and Inference beyond Models*. Cambridge, UK: Cambridge University Press.

# John Cook Athletics

Author, with Brandon Vogel. *Dream Like a Champion*. Lincoln, NE: University of Nebraska Press.

## Maria Rosario T. de Guzman Child, Youth and Family Studies

Editor, with Jill Brown, Carolyn Pope Edwards. Parenting From Afar and the Reconfiguration of Family Across Distance. New York, NY: Oxford University Press.

# Wheeler Winston Dixon English/Film Studies

Author. The Films of Terence Fisher: Hammer Horror and Beyond. London, England: Auteur/Columbia University Press.

Author, with Gwendolyn Audrey Foster. A Short History of Film (3rd ed.) New Brunswick, NJ: Rutgers University Press.

# Carolyn Ducey International Quilt Study Center and Museum/ Textiles, Merchandising and Fashion Design

Editor, with Patricia Crews. American Quilts in the Industrial Age, 1760-1870. Lincoln, NE: University of Nebraska Press.

#### Richard Edwards Center for Great Plains Studies

Author, with J. Clark Archer, Leslie Howard, Fred Shelley, David Wishart, Donald Wilhite. *Atlas of Nebraska*. Lincoln, NE: University of Nebraska Press.

# Gwendolyn Audrey Foster English/Film Studies

Author, with Wheeler Winston Dixon. A Short History of Film (3rd ed.). New Brunswick, NJ: Rutgers University Press.

Series editor, with Wheeler Winston Dixon. Quick Takes: Movies and Popular Culture. New Brunswick, NJ: Rutgers University Press.

# Lisa Franzen-Castle

# Nutrition and Health Sciences/ 4-H Youth Development

Author, with Michelle Krehbiel, Cindy Brison, Jessye Goertz, Ann Fenton, Samantha Rivera, Angie Plaggemeyer, Asley Miller, Kyla Richardson, Catherine Eich, Trina Aguirre, Mary Ann Shockley, Anita Tovar, Angela Reed. iCook (Cooking, Eating, & Playing Together). Lincoln, NE: UNL Print Services.

# Julia L. Frengs Modern Languages and Literatures

Author. Corporeal Archipelagos: Writing the Body in Francophone Oceanian Womens Literature. Lanham, MD: Lexington Books.

# Dana Fritz Art, Art History and Design

Author, with William L. Fox, Carrie Robbins, Rebecca Reider. *Terraria Gigantica: The World under Glass.* Albuquerque, NM: University of New Mexico Press.

#### Mary Garbacz

# Agricultural Leadership, Education and Communication

Editor, with Shelby Cammack, Alexandria Lundvall, Katherine Mundorf, Riley Nichols, Andrea Wach Tenney, Emily Frenzen, Abby Steffen. Strategic Discussions for Nebraska - Science Literacy: Using Research-Based Facts to Make Real-World Decisions. Lincoln, NE: University of Nebraska-Lincoln.

# Mark A. Hinchman Interior Design

Author, with Elyssa Yoneda. *Interior Design Masters*. London, UK: Routledge.

#### Kristen Hoerl Communication Studies

Author. The Bad Sixties: Hollywood Memories of the Counterculture, Antiwar, and Black Power Movements. Jackson, MS: University Press of Mississippi.

# Karla Jenkins Animal Science/ Panhandle Research and Extension Center

Author. 2017 Beef Cattle Report. Lincoln, NE: UNL Print Services.

# Wendy J. Katz Art, Art History and Design

Editor. The Trans-Mississippi and International Expositions of 1898-1899. Lincoln, NE: University of Nebraska Press.

# Stevan Knezevic

# Agronomy and Horticulture/ Haskell Agricultural Laboratory

Author, with Cody Creech, Amit Jhala, Robert Klein, Greg Kruger, Chris Proctor, Patrick Shea, Clyde Ogg, Cole Thompson, Nevin Lawrence, Rodrigo Werle. 2017 Guide for Weed, Disease, and Insect Management in Nebraska. Lincoln, NE: UNL Print Services.

# Ted Kooser English

Author. Kindest Regards: New and Selected Poems. Port Townsend, WA: Copper Canyon Press.

# Tom Larson Glenn Korff School of Music

Author. *The History and Tradition of Jazz (6th ed.)*. Dubuque, IA: Kendall/Hunt Publishing.

# John P. Lenich Law

Author. Nebraska Civil Procedure. Eagan, MN: Thomson Reuters.

# Carole Levin History/ Medieval and Renaissance Studies

Editor, with Anna Riehl Bertolet. Creating the Premodern in the Postmodern Classroom: Creativity in Early English Literature and History Courses. Tempe, AZ: Arizona Center for Medieval and Renaissance Studies

# Kay E. Logan-Peters Research and Instructional Services

Author. *The University of Nebraska-Lincoln*. Charleston, SC: Arcadia Publishing.

#### Matthew Loar

#### **Classics and Religious Studies**

Editor, with Carolyn MacDonald, Dan-el Padilla Peralta. *Rome, Empire of Plunder: The Dynamics of Cultural Appropriation*. Cambridge, UK: Cambridge University Press.

# Suping Lu University Libraries

Editor. 历史上的黑暗一页 *(A Dark Page in History)*. Nanjing, China: Jiangsu People's Publishing House.

# Tom Lynch English

Editor, with Susan Naramore Maher, Drucilla Wall, O. Alan Weltzien. *Thinking Continental: Writing the Planet One Place at a Time.* Lincoln, NE: University of Nebraska Press.

# Derrel Martin Biological Systems Engineering

Author, with William Kranz, Tyler Smith, Suat Irmak, Charles Burr, Ron Yoder. Center Pivot Irrigation Handbook. Lincoln, NE: UNL Print Services

# Jennifer McKitrick Philosophy

Author. Dispositional Pluralism. Oxford, UK: Oxford University Press.

# Patrice C. McMahon Political Science/Honors Program

Author. The NGO Game: Post-conflict Peacebuilding in the Balkans and Beyond. Ithaca, NY: Cornell University Press.

# Gary E. Moulton History

Author. The Lewis and Clark Expedition Day by Day. Lincoln, NE: University of Nebraska Press.

# David L. Olson Supply Chain Management and Analytics

Author, with Jack G. Nestell. Successful ERP Systems: A Guide for Businesses and Executives. New York, NY: Business Expert Press.

Author, with Desheng Dash Wu. Enterprise Risk Management Models. Berlin Heidelberg, Germany: Springer-Verlag.

Author. Descriptive Data Mining. Singapore: Springer.

Author, with D.D. Wu. *Predictive Data Mining Models*. Singapore: Springer.

Author, with S. Kesharwani. *Digitising Enterprise in an Information Age.* New Delhi, India: Manakin Press Pvt.

# Linda Ray Pratt English

Author. *Great Plains Literature*. Lincoln, NE: University of Nebraska Press.

# Yi Qian Electrical and Computer Engineering

Author, with Lei Xu, Chunxiao Jiang, Yong Ren. *Data Privacy Games*. Cham, Switzerland: Berlin Heidelberg, Germany: Springer-Verlag.

Author, with Linling Kuang, Chunxiao Jiang, Jianhua Lu. Terrestrial-Satellite Communication Networks: Transceivers Design and Resource Allocation. Cham, Switzerland: Springer.

Author, with Feng Ye, Rose Qingyang Hu. Smart Grid Communication Infrastructures: Big Data, Cloud Computing, and Security. Hoboken, NJ: Wiley/IEEE Press.

#### Brett C. Ratcliffe

## Entomology/ University of Nebraska State Museum

Author, with Ronald D. Cave. *The Dynastine Scarab Beetles of the United States and Canada (Coleoptera: Scarabaeidae: Dynastinae)*. Lincoln, NE: University of Nebraska State Museum.

#### **Khalid Savood**

# **Electrical and Computer Engineering**

Author. Introduction to Data Compression. San Francisco, CA: Morgan Kaufmann.

## John West and Judy Diamond

# Nebraska Center for Virology University of Nebraska State Museum

Authors, with Bob Hall. *Carnival of Contagion*. Illustrated by Bob Hall; colors by Nathaniel Hamel, John Kimmel, and Bob Hall; lettering by Marie Kisling; essay by Carl Zimmer; production design by Aaron Sutherlen. Lincoln, NE: University of Nebraska Press.

#### Brenda G. Wristen

#### Glenn Korff School of Music

Civil Engineering

Author, with Lora Deahl. *Adaptive Strategies for Small-Handed Pianists*. New York, NY: Oxford University Press.

#### **Yiqi Yang**

# Textiles, Merchandising and Fashion Design

Editor, with Jianyong Yu, Helan Xu, Baozhong Sun. Porous Lightweight Composites Reinforced with Fibrous Structures. Berlin Heidelberg, Germany: Springer-Verlag.

#### Tian Zhang

Author, with Rao Surampalli, Satinder Kaur Brar, Krishnamoorthy Hegde, Rama Pulicharla, Mausam Verma. *Handbook of Environmental Engineering*. New York, NY: McGraw-Hill Education.

# **Recognitions and Honors**

Faculty who have been elected to honor academies or who have received national or international honors or awards July 1, 2017–June 30, 2018
Submitted by faculty, chairs/heads or deans

Joseph S. Francisco

Chemistry/Dean of the College of Arts and Sciences

National Academy of Sciences

Brian Larkins Agronomy and Horticulture/
Associate Vice Chancellor for Life Sciences

National Academy of Sciences

James Van Etten

Plant Pathology

National Academy of Sciences

Elvira Abrica Educational Administration

Faculty Fellow, American Association of Hispanics in Higher Education

Jonis Agee English

2017 Book Award: High Plains Book Awards

2017 Omaha Reads Selection, Omaha Public Library

Lindsey Bahe Interior Design

First Place Award for Excellence, Council for Interior Design Accreditation

Mark Balschweid Agricultural Leadership,
Fducation and Communication

Senior Fellow, American Association for Agricultural Education

Grace Bauer English

Individual Artist Fellowship in Poetry, Nebraska Arts Council

Andreia Bianchini Food Science and Technology

Young Scientist Research Award, American Association of Cereal Chemists International Christopher Bilder Statistics

Outstanding Statistical Application Award, American Statistical Association

Best Paper in Biometrics, The International Biometric Society

Brian Bockleman Computer Science and Engineering

First Best Paper, Institute of Electrical and Electronic Engineers Conference for Advanced Networks and Telecommunication Systems

Dawn O. Braithwaite Communication Studies

Samuel L. Becker Distinguished Service Award, National Communication Association

Gerald R. Miller Book Award, National Communication Association

Eve Brank Center on Children, Families, and the Law

President, American Psychology-Law Society

Roger Bruning Educational Psychology

Fellow, American Association for the Advancement of Science

Kelsy Burke Sociology

Distinguished Book Award, American Sociology Association Section on Religion

Michael Burton Textiles, Merchandising and Fashion Design

Best Animation, New Media Film Festival

Heng Chen Supply Chain Management and Analytics

Best Dissertation Prize, Aviation Applications Section, Institute for Operations Research and Management Science

Sidnie White Crawford Classics and Religious Studies

Honorary Doctorate in Theology, Uppsala University in Sweden

Kwame Dawes English

Gwendolyn Brooks Award, National Black Writers Conference Honorary Fellow, Royal Society of Literature

Jeffrey S. Day Architecture

Award of Excellence, Best in Category: Design as Idea, Interior Design Educators Council

Award of Excellence, Best in Category: Design as Interior, Interior Design Educators Council

# Catherine De Almeida Landscape Architecture

Case Study Investigation Research Fellow, Landscape Architecture Foundation

Teaching Fellow, Landscape Architecture Foundation

# Kiyomi Deards University Libraries

Up and Comer Award, Against the Grain Media

# Dipti Dev Child, Youth, and Family Studies/ Nutrition and Health Sciences

National Family Life and Human Development State Extension Specialist Early Achievement Award, U.S. Department of Agriculture

# Ken Dewey Geography and Natural Resources

Public Education Award, National Weather Association

# W. Wayne Drummond Architecture

Distinguished Service Award, Association of Collegiate Schools of Architecture

# Matthew Dwyer Computer Science and Engineering

Most Influential Scholars List for the Field of Software Engineering, AMiner

# Sebastian Elbaum Computer Science and Engineering

Most Influential Scholars List for the Field of Software Engineering, AMiner

# Jongwan Eun Civil Engineering

ExCEED Fellow, American Society of Civil Engineers

# Ronald Faller Civil Engineering

John Melvin Motorsports Safety Award, SAE International

# Michael Forsberg Agricultural Leadership, Education and Communication

2017 Ansel Adams Award for Conservation Photography, Sierra Club

# Cory Forbes Natural Resources

Fulbright Scholar, Council for International Exchange of Scholars

# Charles "Chuck" Francis Agronomy and Horticulture

Hero Recognition Award, North Central Region's Sustainable Agriculture Research and Education Program

# Sheri Fritz Earth and Atmospheric Sciences

Lifetime Achievement Award, International Paleolimnology Association

# Sue Gardner University Libraries

Gerald Hodges Intellectual Freedom Award, American Library Association

# Yufeng Ge Biological Systems Engineering

New Holland Young Researcher Award, American Society of Agricultural and Biological Engineers

# Matthew Gormley Educational Psychology

Young Scientist Research Award, National Resource Center on ADHD

# Dale Grotelueschen Veterinary Medicine and Biomedical Sciences/

**Great Plains Veterinary Educational Center** 

Veterinarian of the Year, Nebraska Veterinary Medical Association

## Christopher Gustafson Agricultural Economics

Best Article of the Year, Journal of the International Association of Agricultural Economists

#### David Hage Chemistry

Fellow, American Association for the Advancement of Science

Pierce Award in Affinity Technology, International Society for Molecular Recognition

# Ted Hamann Teaching, Learning and Teacher Education

Henry T. Trueba Award, American Educational Research Association (with Víctor Zúñiga and Juan Sánchez García)

# Michelle Hassler Journalism and Mass Communications

Great Ideas for Teachers Award, Association for Education in Journalism

## Dervl Hatch-Tocaimaza Educational Administration

Barbara K. Townsend Emerging Scholar Award, Council for the Study of Community Colleges

# Derek Heeren Biological Systems Engineering

A.W. Farrall Young Educator Award, American Society of Agricultural and Biological Engineers

Tiffany Heng-Moss Entomology

Agricultural Sciences and Natural Resources Award of Excellence, International Integrated Pest Management

Leon Higley Natural Resources/Forensic Science

Award of Excellence, International Integrated Pest Management

Melissa Homestead English

Fellow, National Endowment for the Humanities

Miyoung Hong Interior Design

Michael Brill Award in Urban Communication and Design Behavior, Environmental Design Research Association

Jerry Hudgins Electrical and Computer Engineering

Distinguished Service Award, IEEE Industrial Applications Society

Tom Hunt Entomology/Nebraska Extension

Award of Excellence, International Integrated Pest Management

Roz Hussin Online and Distance Education

Whitney M. Young Jr. Service Award, Boy Scouts of America

Suat Irmak Biological Systems Engineering

National Water and Energy Conservation Award (team award), USDA National Institute for Food and Agriculture

Margaret Jacobs History/Women's and Gender Studies

Andrew Carnegie Fellow, Carnegie Corporation of New York

Katrina Jagodinsky History

Jensen-Miller Award, Western History Association

Armitage-Jameson Prize, Coalition for Western Women's History

Amit Jhala Agronomy and Horticulture

Outstanding Reviewer Award, Weed Science Society of America

Valerie Jones Journalism and Mass Communications

Fellow, Lillian Lodge Kopenhaver Center for the Advancement of Women in Communication

Neeta Kantamneni Educational Psychology

Fritz and Linn Kuder Early Career Award, Society of Counseling Psychology of the American Psychological Association

# Jenny Keshwani Biological Systems Engineering

Early Career Education Achievement Award, Biology and Ag Engineers Division, American Society of Engineering Education

Yong-Rak Kim Civil Engineering

Best Paper Award, International Society for Maintenance and Rehabilitation of Transport Infrastructures

Lydiah Kananu Kiramba

Teaching, Learning and Teacher Education

Reading Hall of Fame for Young Scholars Award, National Council of Teachers of English Research Foundation

**Matthew Lambert** 

Special Education and Communication Disorders

Docent, University of Eastern Finland

Jim Lewis Mathematics/Center for Science,
Mathematics and Computer Education

Fellow, American Association for the Advancement of Science

Jamie Loizzo Agricultural Leadership, Education and Communication

Burmeister Award, Division of Distance Learning, Association for Educational Communications and Technology

Sara Kathleen Lyons School of Biological Sciences

Science Achievement Award, National Museum of Natural History

Bernard R. McCoy Broadcasting

Award of Excellence, Documentary, Broadcast Education Association

Award of Excellence, Documentary, Impact DOCS International Film Competition

Sigma Delta Chi Award, Society of Professional Journalists

Eric Sevareid Award, Documentary, Midwest Broadcast Journalists Association

Nathan Meier Research and Economic Development

2018 Rising Star, National Organization of Research Development Professionals

Amanda R. Morales Teaching, Learning and Teacher Education

Research on Teacher Diversification Award, American Association of Colleges of Teacher Education

# Rodney Moxley Veterinary Medicine and Biomedical Sciences

Partnership Award, National Institute of Food and Agriculture

# Yunwoo Nam Community and Regional Planning

Best Poster Paper Award, International Society of Travel and Tourism Education

# Katherine Nashleanas Geography

Higher Education Distinguished Teaching Award, National Council for Geographic Education

#### **Nebraska Innovation Campus**

Emerging Research Park Award, Association of University Research Parks

## Lim Nguyen Electrical and Computer Engineering

Fulbright Scholar, Council for International Exchange of Scholars

#### Stanislava Nikolova Finance

Best Paper Award, Inquire Europe/UK

# Kristen Olson Sociology

Fellow, American Statistical Association

# Angela Pannier Biological Systems Engineering

Director's New Innovator Award, National Institutes of Health

# Lance Pérez Electrical and Computer Engineering

Fellow, American Society for Engineering Education

# Jenna Pieper Management

Scholarly Achievement Award, HR Division, Academy of Management

# Massimiliano Pieroban Computer Science and Engineering

Best Paper, Institute of Electrical and Electronic Engineers Global Communications

# Kenneth Price English

Boydston Essay Prize, Association for Documentary Editing

# Jay Puckett Durham School of Architectural Engineering and Construction

Wyoming Eminent Engineer for 2018, Tau Beta Pi, National Engineering Honor Society

# John Raible Teaching, Learning and Teacher Education

G. Pritchy Smith Multicultural Educator Award, National Association for Multicultural Education

# Helen Raikes Child, Youth and Family Studies

Grace Abbott Award, Nebraska Children and Families Foundation

# Saravanan Raju Computer Science and Engineering

Jane N. Ryland Fellowship, EDUCAUSE

#### Kamlakar Rajurkar Mechanical & Materials Engineering

M. Eugene Merchant Manufacturing Medal, American Society of Mechanical Engineers/Society of Manufacturing Engineers

#### Byray Ramamurthy Computer Science and Engineering

First Best Paper, Institute of Electrical and Electronic Engineers Conference for Advanced Networks and Telecommunication Systems

## Lauren Ronsse Durham School of Architectural Engineering and Construction

Science Writing Award, Acoustical Society of America

# Gregg Rothermel Computer Science and Engineering

Most Influential Scholars List for the Field of Software Engineering, AMiner

#### Blake A. Runnalls Marketing

Young Scholar Research Competition Winner, Organizational Frontlines Research

## Erica Ryherd Durham School of Architectural Engineering and Construction

Science Writing Award, Acoustical Society of America

# Leah Sandall Agronomy and Horticulture

Extension Educational Materials Program Certificate of Excellence, American Society of Agronomy

# Philip Sapirstein Art, Art Hi

Art, Art History and Design/Center for Digital Research in the Humanities

Mellon Fellowship for Digital Publication, National Endowment for the Humanities

## James Schnable Agronomy and Horticulture

Marcus Rhoades Early Career Award, Maize Genetics

# Jessica Shoemaker Law

Fulbright Scholar, Council for International Exchange of Scholars

# Chungwook Sim Civil Engineering

ExCEED Fellow, American Society of Civil Engineers

# Troy Smith Management

Rosabeth Moss Kanter International Award for Research Excellence in Work and Family, Center for Families at Purdue University and Boston College Center for Work & Family

# John Stansbury Civil Engineering

Engineering Faculty Excellence Award, Olsson Associates

# Gerald J. Steinacher History/Harris Center for Judaic Studies

Distinguished Fellow, Institute for Contemporary History, Munich

Honorary Senior Fellow, Historisches Kolleg (Institute for Advanced Study), Munich

# Mitchell Stephenson

# Agronomy and Horticulture/ Nebraska Extension

Outstanding Young Range Professional Award, Society for Range Management

# Alison Stewart Art, Art History and Design

Senior Fellowship, Herzog August Bibliothek, Wolfenbüttel, Germany

# Jay Storz Biological Sciences

Fellow, American Association for the Advancement of Science Fulbright Scholar, Council for International Exchange of Scholars

# Richard Sutton Agronomy and Horticulture

Excellence in Research and Creative Work Award, Council of Educators in Landscape Architecture

# David Swanson Computer Science and Engienering

First Best Paper, Institute of Electrical and Electronic Engineers Conference for Advanced Networks and Telecommunication Systems

#### Pat Tetreault LGBTOA+ Resource Center

Research Recognition Award, American College Personnel Association's Coalition for Sexual and Gender Identities

# Jennifer Thoegersen University Libraries

Up and Comer Award, Against the Grain Media

# William Thomas III History

Best Animation, New Media Film Festival

## Christopher Tuan Civil Engineering

Defense Innovation Award, TechConnect

# Hamid Vakilzadian Electrical and Computer Engineering

George McClure Citation of Honor, Institute of Electrical and Electronics Engineers

#### David von Kampen Glenn Korff School of Music

Winner, 19th Annual International Choral Composition Competition, Cambridge Chamber Singers

#### Hope Wabuke English

Emerging Critics Fellowship, National Book Critics Circle

# Matthew Waite Journalism and Mass Communications

J. Winton Lemen Fellowship Award, National Press Photographers Association

# Curtis Weller Food

# Food Science and Technology/ Biological Systems Engineering

PEI Professional Engineer of the Year, American Society of Agricultural and Biological Engineers

# Tyler White Political Science

Instructor of the Year, International Association for Intelligence Education

#### Charles Wortmann Agronomy and Horticulture

International Agronomy Award, American Society of Agronomy

# Robert Wright Entomology/Nebraska Extension

Award of Excellence, International Integrated Pest Management

# Yan Ruth Xia

# **Child, Youth and Family Studies**

Felix Berardo Scholarship Award for Mentoring, National Council on Family Relations

Distinguished Fulbright Chair in the Social Sciences, Council for International Exchange of Scholars

# Anthony J. Zera

# **Biological Sciences**

Fulbright Scholar, Council for International Exchange of Scholars

# Tian Zhang Civil Engineering

Outstanding Reviewer, *Journal of Hazardous, Toxic and Radioactive Waste*, American Society of Civil Engineers

#### Andrew Zimbroff

Textiles, Merchandising and Fashion Design

Fulbright Scholar, Council for International Exchange of Scholars

# **Glossary of Federal Agency Abbreviations**

DHS	Department of Homeland Security		
DHHS	Departme ACF CDC NIOSH	ent of Health and Human Services Administration for Children and Families Centers for Disease Control National Institute for Occupational Safety and Health	
	SAMHSA	Substance Abuse and Mental Health Services Administration	
DOC	Departme NIST NOAA	ent of Commerce National Institute of Standards and Technology National Oceanic & Atmospheric Administration	
DoD	AFOSR ARO ARPA-E DTRA DURIP MDA ONR SERDP	ent of Defense Air Force Office of Scientific Research Army Research Office Advanced Research Projects Agency-Energy Defense Threat Reduction Agency Defense University Research Instrumentation Program Missile Defense Agency Office of Naval Research Strategic Environmental Research and Development Program U.S. Strategic Command Telemedicine and Advanced Technology Research Center	
DOE	Departme ARPA-E NETL	ent of Energy Advanced Research Projects Agency-Energy National Energy Technology Laboratory	
DOI	Departme FWS GS NPS	ent of Interior Fish and Wildlife Service Geological Survey National Park Service	
DOJ	Department of Justice NIJ National Institute of Justice		
DOT	Departme FHWA FRA	ent of Transportation Federal Highway Administration Federal Railroad Administration	
ED	Departm IES	ent of Education Institute of Education Sciences	

EPA	Environmental Protection Agency		
EPSCoR	Established Program to Stimulate Competitive Research		
IMLS	Institute of Museum and Library Services		
NASA	National Aeronautics and Space Administration		
NCHRP	National Cooperative Highway Research Program		
NEA	National Endowment for the Arts		
NEH	National Endowment for the Humanities		
NIH	National FIC NCI NCRR NEI NHLBI NIAID NIBIB NICHD NIDA NIDCD NIDDK NIEHS NIGMS NIMH NINDS	Institutes of Health Fogarty International Center National Cancer Institute National Center for Research Resources National Eye Institute National Heart, Lung and Blood Institute National Institute on Allergy & Infectious Diseases National Institute of Biomedical Imaging and Bioengineering National Institute of Child Health and Human Development National Institute on Drug Abuse National Institute on Deafness & Communication Disorders National Institute of Diabetes, Digestive & Kidney Disease National Institute of Environmental Health Sciences National Institute of General Medical Sciences National Institute of Mental Health National Institute of Neurological Disorders & Stroke	
NSF	National Science Foundation		
USAID	United States Agency for International Development		
USDA	United St AFRI ARS FNS FS NASS NIFA OCE	ates Department of Agriculture Agriculture and Food Research Initiative Agricultural Research Service Food and Nutrition Service Forestry Service National Agricultural Statistics Service National Institute for Food and Agriculture Office of the Chief Economist	

Published November 2018 by the University of Nebraska-Lincoln Office of Research and Economic Development Graphic Designer: Stephanie Severin Editor: Elizabeth Banset

Every effort has been made to verify the accuracy and completeness of submissions. Faculty, department chairs and heads and the deans were invited to submit entries online regarding published books, national and international recognitions and creative works in the fine and performing arts and architecture. Information on major sponsored program awards was gathered by the Office of Sponsored Programs. Reports on license agreements were produced by NUtech Ventures.

The University of Nebraska does not discriminate based upon any protected status. See go.unl.edu/nondiscrimination. ©2018, The Board of Regents of the University of Nebraska. All rights reserved.

Contributing Editors: Mardi Bonner, Megan McMasters, Ashley Washburn, Tiffany Lee

Printing: University of Nebraska-Lincoln Print Services

