

# AWARD REPORT

September 2019

PI	PI College	PI Dept	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Frayne Olson	AES & EXT	AES Agribusiness & Applied Economics		\$ 26,680.00	Impact of Malt Barley Production on Whole Farm Risk in North Dakota	ND Barley Council
Saleem Shaik	AES & EXT	AES Agribusiness & Applied Economics		\$ 45,000.00	Develop Farm Model to Conduct Policy Analysis for North Dakota & Northern Great Plains	ND Soybean Council
William Wilson	AES & EXT	AES Agribusiness & Applied Economics	David Bullock	\$ 40,000.00	Marketing and Consulting and Research Projects	ND Soybean Council
Shafiqur Rahman	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 5,998.00	Microbial Fuel Cell (MFC) for Bioelectricity Generation and Pollutants Removal from Wastewater (SBPW)	Bangladesh Agricultural Research Council
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$ 1,500.00	Improved White Mold Resistance in Dry and Snap Beans through Multi-site Screening and Pathogen Characterization Throughout Major Production Areas	USDA-ARS / University of Nebraska-Lincoln
Douglas Landblom	AES & EXT	AES Dickinson Research/Extension Center		\$ 3,000.00	2019 Soil Health Workshop: Regenerative Agriculture-Carbon, Microbial Processes and Soil Health Indicators	Dakota West RC&D
Gregory Lardy	AES & EXT	AES Directors Office		\$ 20,000.00	NDSU Agricultural Statistics Program	National Agricultural Statistics Service
Benjamin Geaumont	AES & EXT	AES Hettinger Research/Extension Center		\$ 7,835.00	Introducing prescribed fire on private lands managed by the Game and Fish Department as Private Lands Open to Sportsmen (PLOTS).	ND Game and Fish Department
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology	Md Mukhlesur Rahman	\$ 51,065.00	Improving Resistance to <i>Sclerotinia Sclerotiorum</i> in Spring Canola	Agricultural Research Service
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology		\$ 292,830.00	Enhancing Productivity and Profitability of Canola in North Central U.S.	National Institute of Food & Agriculture
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 4,655.00	Barley Bacterial Leaf Streak: Genetic Resistance and a PCR-Based Method for Pathogen Detection	American Malting Barley Association
Marisol Berti	AES & EXT	AES Plant Sciences		\$ 196,500.00	Alfalfa Management Practices and Their Effect on Arbuscular Mycorrhizal Populations - Towards Improving Health, Productivity, and Sustainability of Alfalfa Production	National Institute of Food & Agriculture
Harlene Hatterman-Valenti	AES & EXT	AES Plant Sciences		\$ 23,550.00	Semi-Mechanization of Early-Season Vineyard Management	ND Department of Agriculture
Burton Johnson	AES & EXT	AES Plant Sciences		\$ 10,000.00	IR4 Testing 2019/2020	USDA NIFA / Michigan State University
Phillip McClean	AES & EXT	AES Plant Sciences	Juan Osorno	\$ 74,104.00	Enhancing the Nutritional and Functional Traits of Dry Bean through Metabolomics, Genetics, and Breeding	Agricultural Research Service
Phillip McClean	AES & EXT	AES Plant Sciences		\$ 2,145.00	An Integrated Program to Accelerate Breeding of Resilient, More Productive Beans for Smallholder Farmers	USAID / Pennsylvania State University
Joel Ransom	AES & EXT	AES Plant Sciences		\$ 5,000.00	Corn Fertility Trial - Phosphorus	Mosaic Company

# AWARD REPORT

September 2019

PI	PI College	PI Dept	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Asunta Thompson	AES & EXT	AES Plant Sciences		\$ 5,000.00	Potato Improvement and Cultivar Development for the Northern Plains	J.R. Simplot Company
Larry Cihacek	AES & EXT	AES School of Natural Resource Sciences		\$ 2,684.00	Nitrogen Dynamics in Mixed Species Crop Residues with a High Proportion of Wheat in Long-Term No-Till Crop Production Systems	ND Wheat Commission
Edward DeKeyser	AES & EXT	AES School of Natural Resource Sciences	Christina Hargiss	\$ 112,500.00	Assessment of Grasslands and Wetlands in the Prairie Pothole Region	U.S. Fish and Wildlife Service
Edward DeKeyser	AES & EXT	AES School of Natural Resource Sciences		\$ 25,000.00	Calculating Ecosystem Services and Values of Wetlands within an Agricultural Setting	U.S. Geological Survey
David Hopkins	AES & EXT	AES School of Natural Resource Sciences	Aaron Daigh	\$ 30,580.00	Soil micromorphologic products including high resolution images and image analysis can serve as effective measures of soil function	Natural Resources Conservation Service
Audrey Kalil	AES & EXT	AES Williston Research/Extension Center	Nonoy Bandillo	\$ 49,746.00	Optimizing Nodulation in Chickpea for Enhanced Nitrogen Fixation	Agricultural Research Service
Mary Berg	AES & EXT	Extension Carrington Research/Extension Center		\$ 390,000.00	Livestock Environmental Nutrient Management Education Support Program / 319 Nonpoint Implementation	EPA / ND Department of Environmental Quality
Andrew Thostenson	AES & EXT	Extension Agricultural & Natural Resources		\$ 51,000.00	Administration and enhancement of pesticide applicator training and certification Program #04111	Environmental Protection Agency
Becky Koch	AES & EXT	Extension Agricultural Communication		\$ 8,680.00	Printing and Binding of Community Orchard & Good Agricultural Practices Manual	ND Department of Agriculture
Meagan Scott	AES & EXT	Extension Center for 4-H Youth Dev		\$ 110,337.00	Expanding the Homestead: Technical Assistance to Prevent Opioid Misuse in the Dakotas	SAMHS / South Dakota State University
Bruce Schmidt	AES & EXT	Extension Center for Community Vitality	Lynette Flage	\$ 48,630.00	ND Soil Conservation and Watershed Leadership Academy / 319 Nonpoint Implementation	EPA / ND Department of Environmental Quality
Megan Ditterick	AES & EXT	Extension Food & Nutrition	Ramona Danielson Mary Larson	\$ 631,313.00	Promoting Healthy Outcomes through Indigenous Food Systems	Centers for Disease Control
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$ 1,500.00	Eat Smart. Play Hard.	Northern Pulse Growers Association
Lynette Flage	AES & EXT	Extension HD General		\$ 5,000.00	Grand Forks County Gearing up for Kindergarten	Grand Forks Public Schools
Janet Knodel	AES & EXT	Extension Plant Pathology	Patrick Beauzay Andrew Friskop Samuel Markell Esther McGinnis Jesse Ostrander Andrew Thostenson	\$ 179,313.00	Extension Integrated Pest Management Program in North Dakota	National Institute of Food & Agriculture
Jena Bjertness	CAFSNR	Northern Crops Institute		\$ 7,935.00	Promoting US Soy Protein in Export Markets	U.S. Soybean Export Control

# AWARD REPORT

September 2019

PI	PI College	PI Dept	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Mark Jirik	CAFSNR	Northern Crops Institute	Jena Bjertness	\$ 4,000.00	High Oleic Soybean Oil Course	ND Soybean Council
Mark Jirik	CAFSNR	Northern Crops Institute		\$ 11,000.00	Commodity Soybean Procurement Management for Importers Course	ND Soybean Council
Mark Jirik	CAFSNR	Northern Crops Institute		\$ 94,000.00	FY General Funding	State of Minnesota
Zhisheng Liu	CAFSNR	Northern Crops Institute		\$ 27,300.00	Improving Profitability for Soymilk Processors by Methods to Add Value to Okara Produced from Soybean Processing	MN Soybean Research & Promotion Council
Ravi Yellavajjala	CENG	Civil & Environmental Engineering	Dilpreet Bajwa	\$ 20,000.00	Polyol soy-protein based coating for protection against chloride-ion attack	MN Soybean Research & Promotion Council
Benjamin Braaten	CENG	Electrical & Computer Engineering		\$ 12,097.00	Chip-Based ADS-B for High Density, Low Altitude UAV Operations	NASA / University Of Washington
Jordi Estevadeordal	CENG	Mechanical Engineering	Yildirim Suzen	\$ 25,000.00	Advanced Optical Diagnostics for Supersonic/Hypersonic Wind Tunnel Research at NASA	NASA / University of North Dakota
Jordi Estevadeordal	CENG	Mechanical Engineering		\$ 6,000.00	Experimental Investigation of the Effect of Sweep on a Pitching Finite -Aspect-Ratio Wing	DOD / Ohio Aerospace Institute
Alan Kallmeyer	CENG	Mechanical Engineering	Chad Ulven	\$ 150,000.00	Design and Development of Durable Adhesive Joints	DOD / PPG Industries
Chad Ulven	CENG	Mechanical Engineering	Bashir Khoda Mukund Sibi Dean Webster	\$ 1,000,000.00	High Performance Bio-based Polymers for Coatings and Additive Manufacturing	Department of Defense
Yagna Jarajapu	CHP	Pharmaceutical Sciences		\$ 50,000.00	Targeting Mass Receptor for Diabetic Vascular Disease in Older Adults	National Institutes of Health
Kendra Greenlee	CSM	Biological Sciences		\$ 150,962.00	Effects of stress on insect pollinators and pests	Agricultural Research Service
Timothy Greives	CSM	Biological Sciences		\$ 15,295.50	Methods Development to Reduce Blackbird Damage to Sunflowers	Animal and Plant Health Inspection Service
Christopher Colbert	CSM	Chemistry & Biochemistry		\$ 290,000.00	Structural Basis for Cell Surface Signaling by a Gram-negative Bacteria Sigma-regulator	National Institutes of Health
Gudrun Lukat-Rodgers	CSM	Chemistry & Biochemistry		\$ 435,000.00	Mechanistic Aspects of the Final Step of Heme B Biosynthesis in Gram-positive Bacteria	National Institutes of Health
Dante Battocchi	CSM	Coatings & Polymeric Materials		\$ 250,000.00	High Wear Coating Systems	DOD / PPG Industries
Dante Battocchi	CSM	Coatings & Polymeric Materials		\$ 149,698.00	High Temperature Coating Systems	DOD / PPG Industries
Shane Stafslie	CSM	Coatings & Polymeric Materials		\$ 150,000.00	TARDEC Surface and Ground Water Membrane Fouling Research: Takes 2.5.1 and 2.5.2	DOD / PPG Industries
Andriy Voronov	CSM	Coatings & Polymeric Materials	Scott Pryor	\$ 34,365.00	Collaborative Research: Engineering of Recoverable Cellulosomes for Bioconversion	National Science Foundation
Jeremy Straub	CSM	Computer Science		\$ 10,000.00	REU: Research Experience in Cyber-Security for Cyber-Physical Systems	National Science Foundation
Benjamin Laabs	CSM	Geosciences		\$ 22,886.00	Establishing a database of glacial deposits and landforms in North Dakota to enable geoscientific research	NASA / University of North Dakota

## AWARD REPORT

September 2019

PI	PI College	PI Dept	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Benjamin Balas	CSM	Psychology		\$ 192,938.00	RII Track-2 FED: The Visual Experience Database: A Large-Scale Point-of-View Video Database for Vision Research	NSF / Bates College
James Bahr	Misc	VPRCA		\$ 196,687.00	Soy-Based Road Dust Control Agent from Low Cost Materials with Field Demonstrations	United Soybean Board
Sara Mwangura	Misc	Wellness Center		\$ 1,232.18	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Brenda Lantz	UGPTI	Upper Great Plains Transportation Institute		\$ 10,680.00	NDHP Commercial Vehicle Safety Plan Review and Truck Crash Analysis	ND Highway Patrol
Brenda Lantz	UGPTI	Upper Great Plains Transportation Institute		\$ 402,534.00	Improving CMV Safety through University Partnerships: The FMCSA Western Service Center Commercial Vehicle Safety Center and Summit	Federal Motor Carrier Safety Administration
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute	Kimberly Vachal	\$ 155,794.00	Transportation Market Information Gathering and Central Midwest Farm Truck Fleet and Use Survey	Agriculture Marketing Service
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 4,950.00	ND Grain Movement Database: Soybean Transportation	ND Soybean Council
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 4,950.00	ND Grain Movement Database: Corn Transportation	ND Corn Utilization Council
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 8,844.00	North Dakota MPO Planning Support Program Master Agreement	DOT / GF-EGF Metro. Planning Org.