

AWARD REPORT

September 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
William Nganje	AES&EXT	AES Agribusiness & Applied Economics	Kwame Addey	\$ 4,999.00	Develop Farm Model to Conduct Policy Analysis for North Dakota & Northern Great Plains - Phase II	ND Corn Utilization Council
Igathinathane Cannayen	AES&EXT	AES Agricultural & Biosystems Engineering		\$ 115,000.00	Developing Tools for Better Management of Rangeland, Pastures and Forages	USDA Agricultural Research Service
Gregory Lardy	AES&EXT	AES Agricultural & Biosystems Engineering	John Nowatzki Xin Sun	\$ 436,046.00	Advanced UAS/UAV Application and Data Management Systems and Bioinformatics Tools Integrate GxExM Data for Precision Agricultural Management	USDA Agricultural Research Service
Carl Dahlen	AES&EXT	AES Animal Sciences		\$ 100,321.00	Rapid analysis of bioactive plant constituents and steroid hormones in beef cattle matrices	USDA Agricultural Research Service
Robert Maddock	AES&EXT	AES Animal Sciences		\$ 5,500.00	National Beef Quality Audit – 2021: In-plant survey of transportation, mobility, live cattle, harvest-floor assessments, and carcass characteristics of fed steers and heifers and market cows and bulls	National Cattlemen's Beef Association / Texas A&M University
Kendall Swanson	AES&EXT	AES Animal Sciences		\$ 42,000.00	Development of a science-based management strategy to reduce the use of antimicrobials	FFAR / Texas Tech University
Kendall Swanson	AES&EXT	AES Animal Sciences		\$ 19,250.00	Acquisition of Goods and Services	USDA Agricultural Research Service
Alison Ward	AES&EXT	AES Animal Sciences	Joel Caton Carl Dahlen	\$ 40,000.00	Maternal Nutrition, Epigenetic Modifiers, and Programming of Fetal Organ Development in Beef Cattle	USDA National Institute of Food & Agriculture
Michael Ostlie	AES&EXT	AES Carrington Research / Extension Center		\$ 22,735.00	Scientific Applications & Research Associates (SARA) Terrestrial Acoustic Sensory Array (TASA) Detect and Avoid (DAA) network in North Dakota	University of North Dakota
Michael Ostlie	AES&EXT	AES Carrington Research / Extension Center	Audrey Kalil	\$ 23,525.00	Understanding Environmental Controls on Pea Protein	USDA Agricultural Research Service
Jasper Teboh	AES&EXT	AES Carrington Research / Extension Center		\$ 18,700.00	Assessment of seed treatment effects on soybean and field pea performance	BASF Corporation
Jasper Teboh	AES&EXT	AES Carrington Research / Extension Center	Szilvia Yuja	\$ 8,180.00	Evaluate the effectiveness of ANVOLT as a urease inhibitor in wheat production	Koch Ag & Energy LP
Michael Wunsch	AES&EXT	AES Carrington Research / Extension Center	Michael Ostlie	\$ 9,000.00	Field Evaluation of Sclerotinia Head and Stalk Rot of Sunflower for Genetic Mapping and Germplasm Development	USDA Agricultural Research Service
Gregory Lardy	AES&EXT	AES Directors Office		\$ 20,000.00	NDSU Agricultural Statistics Program	USDA National Agricultural Statistics Service
Sakshi Paudel	AES&EXT	AES Microbiological Sciences	Samiran Banerjee	\$ 14,883.00	The impact of agricultural practices on microbial spatiotemporal dynamics and contributions to soil health	USDA-NIFA / University of Minnesota
Birgit Pruess	AES&EXT	AES Microbiological Sciences		\$ 47,620.00	Testing novel food antimicrobials on tomatoes (APUC Grant Program)	ND Department of Agriculture
Thomas Baldwin	AES&EXT	AES Plant Pathology		\$ 24,718.00	Management and Innovative Research of FHB in Barley	USDA Agricultural Research Service
Luis Del Rio Mendoza	AES&EXT	AES Plant Pathology	Venkata Chapara Eric Eriksmoen Michael Ostlie Md Mukhlesur Rahman Jasper Teboh Szilvia Yuja	\$ 40,000.00	Strengthening Canola Profitability in North Central US	USDA National Institute of Food & Agriculture
Zhaohui Liu	AES&EXT	AES Plant Pathology		\$ 5,000.00	Barley Bacterial Leaf Streak: Host Resistance and Disease Epidemiology	American Malting Barley Association
Zhaohui Liu	AES&EXT	AES Plant Pathology		\$ 18,341.40	Acquisition of Goods and Services	USDA Agricultural Research Service

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Julie Pasche	AES&EXT	AES Plant Pathology		\$ 23,628.00	Evaluation of Chipping Lines for Reaction to PMTV	PepsiCo. Inc.
Julie Pasche	AES&EXT	AES Plant Pathology	Guiping Yan	\$ 16,420.00	Understanding Differences in P. Allius Populations from North Dakota and Washington State, and their Role in TRV Transmission in Potato	USDA Agricultural Research Service
Jack Rasmussen	AES&EXT	AES Plant Pathology		\$ 29,436.00	Acquisition of Goods and Services	USDA Agricultural Research Service
Kalidas Shetty	AES&EXT	AES Plant Sciences	Dipayan Sarkar	\$ 33,906.00	Improving Waterlogging Stress Resilience and Nutrient Use Efficiency in Soybean	United Soybean Board
Asunta Thompson	AES&EXT	AES Plant Sciences		\$ 40,545.00	Refining Molecular Mechanisms that Control Potato Meristem Dormancy and Tuber Sprouting via Omics	USDA Agricultural Research Service
Larry Cihacek	AES&EXT	AES School of Natural Resource Sciences	Rashad Alghamdi	\$ 160,824.00	Long- term Relationships between Soil Carbon and Soil Acidity in the Northern Great Plains Affecting Soil Survey Interpretations.	USDA Natural Resources Conservation Service
Daryl Ritchison	AES&EXT	AES School of Natural Resource Sciences		\$ 75,808.80	National Mesonet Program Prime Contract	NOAA / Synoptic Data Corp.
Brett Webb	AES&EXT	AES Vet Diagnostic Service Department		\$ 211,200.00	FY 21 ND NAHLN Infrastructure II	USDA Animal and Plant Health Inspection Service
Jerald Bergman	AES&EXT	AES Williston Research / Extension Center		\$ 25,000.00	WREC Seed Conditioning Plant	Northern Pulse Growers Association
Audrey Kalil	AES&EXT	AES Williston Research / Extension Center		\$ 37,999.00	Assessment of Soil Health and Nitrogen Economy in Lentil and Pea Cropping Systems	USDA Agricultural Research Service
Andrew Thostenson	AES&EXT	Extension Agricultural & Natural Resources		\$ 51,000.00	Administration and enhancement of pesticide applicator training and certification program for FY2022 through FY2024.	Environmental Protection Agency
Travis Hoffman	AES&EXT	Extension Animal Sciences		\$ 15,000.00	Lamb Quality Video Series	American Lamb Board
Travis Hoffman	AES&EXT	Extension Animal Sciences		\$ 15,000.00	Lamb Quality Video Series	Premier 1 Supplies
Diane Hahn	AES&EXT	Extension Center for 4-H Youth Development		\$ 17,242.00	Building Community Capacity and Resilience through 4-H in ND Tribal Nations	USDA National Institute of Food & Agriculture
Meagan Hoffman	AES&EXT	Extension Center for 4-H Youth Development	Kimberly Bushaw	\$ 59,368.00	Strengthening the Heartland: Empowering Rural Communities to Prevent Opioid Misuse	USDA-NIFA / South Dakota State University
Meagan Hoffman	AES&EXT	Extension Center for 4-H Youth Development	Carrie Johnson	\$ 224,316.00	Strengthening the Heartland: Supporting Empathic Rural Opioid Response	SAMHSA / South Dakota State University
Robinson Garden-Robinson	AES&EXT	Extension Food & Nutrition		\$ 10,000.00	Healthwise 2021-22: Reaching North Dakotans of All Ages with Cancer Prevention Strategies	CDC / ND Department of Health
Carrie Johnson	AES&EXT	Extension HD General		\$ 345,000.00	Nurturing Parenting Program	DHHS ACF / ND Department of Human Services
Samuel Markell	AES&EXT	Extension Plant Pathology		\$ 300,000.00	The SCN Coalition: Building on Economic Impact	North Central Soybean Research Program
Samuel Markell	AES&EXT	Extension Plant Pathology	Andrew Friskop Janet Knodel Presley Mosher	\$ 25,000.00	Great Plains Plant Diagnostic Network	USDA-NIFA / Kansas State University
Kevin Sedivec	AES&EXT	Extension School of Natural Resource Sciences		\$ 44,169.00	Mineral Analysis of Pollinator Forbs	USDA Natural Resources Conservation Service
Abbey Wick	AES&EXT	Extension School of Natural Resource Sciences		\$ 44,260.00	Extension Programming for the SHARE Farms	ND Soybean Council

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Brian Sorenson	CAFSNR	Northern Crops Institute		\$ 37,800.00	Assist with Agricultural Market Resource Center	USDA Rural Development / University of Minnesota Crookston
Brian Sorenson	CAFSNR	Northern Crops Institute	Mark Jirik	\$ 5,750.00	2022 NCI Identity Preserved Soybean Procurement Course	MN Soybean Research & Promotion Council
Brian Sorenson	CAFSNR	Northern Crops Institute	Mark Jirik	\$ 6,000.00	2021 NCI Grain Procurement Course	MN Soybean Research & Promotion Council
Brian Sorenson	CAFSNR	Northern Crops Institute	Mark Jirik	\$ 20,000.00	NCI High Oleic Soy Foods Course Development	MN Soybean Research & Promotion Council
Brian Sorenson	CAFSNR	Northern Crops Institute	Mark Jirik	\$ 7,500.00	2022 NCI INTSOY Course	MN Soybean Research & Promotion Council
Brian Sorenson	CAFSNR	Northern Crops Institute		\$ 7,500.00	Webinar Development	SD Soybean Association
Cindy Urness	CAHSS	Architecture & Landscape Architecture		\$ 49,986.00	North Dakota Department of Commerce State Energy Program Grant	DOE / ND Department of Commerce
Benjamin Melby	CAHSS	English	Kelly Sassi	\$ 25,000.00	Red River Valley Writing Project DPI Grant 2021-2023	ND Department of Public Instruction
Xuefeng Chu	CENG	Civil & Environmental Engineering		\$ 125,000.00	North Dakota Water Resources Research Institute 104(b) program	U.S. Geological Survey
Ravi Yellavajjala	CENG	Civil & Environmental Engineering		\$ 20,000.00	Synthesis of Soy-based Hydrogels for Infrastructure Applications	MN Soybean Research & Promotion Council
Yao Yu	CENG	Construction Management & Engineering	Abdulaziz Banawi Huojun Yang	\$ 27,000.00	Building energy efficiency improvement of A. Glenn Hill Center at North Dakota State University	DOE / ND Department of Commerce
Benjamin Braaten	CENG	Electrical & Computer Engineering		\$ 119,999.00	Analytical Model Development on Propagation in Biological Tissue	U.S. Air Force / University of Dayton
Farhad Shirani Chaharsooghi	CENG	Electrical & Computer Engineering		\$ 249,962.00	Collaborative Research: CIF: Small: A New Paradigm for Distributed Information Processing, Simulation and Inference in Networks: The Promise of Law of Small Numbers	National Science Foundation
Dali Sun	CENG	Electrical & Computer Engineering		\$ 12,700.00	A novel pancreatic cancer treatment without side effects	NDSU Foundation & Alumni Association
Lokesh Narayanan	CENG	Industrial & Manufacturing Engineering		\$ 3,307.00	Strengthening 3D printed (FDM) parts through application of ultrasonic vibration.	Center for Bioplastics and Biocomposites
Lokesh Narayanan	CENG	Industrial & Manufacturing Engineering		\$ 11,421.00	Strengthening 3D printed (FDM) parts through application of ultrasonic vibration.	Center for Bioplastics and Biocomposites
Ali Amiri	CENG	Mechanical Engineering	Chad Ulven	\$ 4,913.00	Investigating root-cause and reduce fogging behavior of natural fiber-filled thermoplastics – Cont.	Center for Bioplastics and Biocomposites
Ali Amiri	CENG	Mechanical Engineering	Chad Ulven	\$ 16,976.00	Investigating root-cause and reduce fogging behavior of natural fiber-filled thermoplastics – Cont.	Center for Bioplastics and Biocomposites
Adam Gladen	CENG	Mechanical Engineering	Ghasideh Pourhashem	\$ 65,205.00	Developing a novel, molten salt torrefaction process to enable solar- or waste-heat driven torrefaction	USDA-NIFA / South Dakota State University
Adam Gladen	CENG	Mechanical Engineering		\$ 69,696.00	Developing a novel, molten salt torrefaction process to enable solar- or waste-heat driven torrefaction	USDA-NIFA / South Dakota State University
Jessica Vold	CENG	Mechanical Engineering		\$ 10,000.00	Engineering Unleashed Fellowship	Kern Family Foundation
Yan Zhang	CENG	Mechanical Engineering		\$ 35,000.00	Enhancement of Left Atrial Appendage Flow using Artificial Superhydrophobic Surface	American Heart Association

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Carla Gross	CHP	Nursing		\$ 342,916.83	North Dakota Nursing Education Consortium Agreement 2021-2023	ND University System Office
Sathish Venkatachalem	CHP	Pharmaceutical Sciences		\$ 144,816.00	Kisspeptins in the Airway	National Institutes of Health
Elizabeth Skoy	CHP	Pharmacy Practice		\$ 16,000.00	Improving the Health of Americans through Prevention and Management of Diabetes and Heart Disease and Stroke Grant	ND Pharmacy Service Corporation
Ramona Danielson	CHP	Public Health		\$ 56,496.00	NDDOH Promoting Health Equity Yr2 (CFDA -93.391)	CDC / ND Department of Health
Stacy Duffield	CHSE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnership with St. Thomas	University of St. Thomas
Laura Parson	CHSE	School of Education		\$ 3,780.00	REU Site: Research experience through collaborative teams in bioprocessing for conversion of waste into products of value	NSF / Auburn University
Julia Bowsher	CSM	Biological Sciences		\$ 131,516.00	Bee stress response and overwintering physiology	USDA Agricultural Research Service
Julia Bowsher	CSM	Biological Sciences	Kendra Greenlee	\$ 1,431,957.00	R11 Track-2 FEC: Insect Cryobiology and Ecophysiology (ICE) Network: Integrating Genomics, Physiology, and Modeling	National Science Foundation
Timothy Greives	CSM	Biological Sciences		\$ 141,403.90	NWRC Blackbird-Sunflower Project	USDA Animal and Plant Health Inspection Service
Timothy Greives	CSM	Biological Sciences		\$ 141,403.90	NWRC Blackbird-Sunflower Project	USDA Animal and Plant Health Inspection Service
Marinus Otte	CSM	Biological Sciences		\$ 10,000.00	Wetlands for reduction of sediment and nutrient loadings in impaired watersheds	Environmental Protection Agency
Christopher Colbert	CSM	Chemistry and Biochemistry		\$ 199,943.00	Structural Basis for Cell Surface Signaling by a Gram-negative Bacteria Sigma-regulator	National Institutes of Health
Zhongyu Yang	CSM	Chemistry and Biochemistry		\$ 193,494.00	CAREER: Proteins under Confinement: Revealing the Impact of Spatial Restrictions on Enzyme Structure, Dynamics and Function	National Science Foundation
Andriy Voronov	CSM	Coatings & Polymeric Materials	Ghasideh Pourhashem	\$ 18,294.00	Plant Oil-Based Latex Adhesives (Year 2)	Center for Bioplastics and Biocomposites
Dean Webster	CSM	Coatings & Polymeric Materials	Mukund Sibi	\$ 6,031.00	Exploration of Bio-based Functional Building Blocks for Durable Coatings	Center for Bioplastics and Biocomposites
Dean Webster	CSM	Coatings & Polymeric Materials	Chad Ulven	\$ 9,998.00	Preliminary Exploration of Poly lignin Biomass for Non-isocyanate Rigid Foams	Plain Sight Innovations LLC
Indranil Sengupta	CSM	Mathematics		\$ 42,000.00	Refinement of stochastic processes via machine/deep learning	Simons Foundation
Benjamin Balas	CSM	Psychology		\$ 157,558.00	R11 Track-2 FED: The Visual Experience Database: A Large-Scale Point-of-View Video Database for Vision Research	NSF / Bates College
Benton Duncan	Grad	Graduate School		\$ 138,000.00	Graduate Research Fellowship Program	National Science Foundation
Benton Duncan	Grad	Graduate School		\$ 270,682.00	North Dakota Trade Office	ND Trade Office
Debra Habedank	Misc	Center for Child Development		\$ 613.61	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Debra Habedank	Misc	Center for Child Development		\$ 682.51	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Kelly Rusch	Misc	NDSU EPSCOR	Jean Ostrom-Blonigen	\$ 4,460,603.00	EPSCoR R11 Track-1: ND- ACES: New Discoveries in the Advanced Interface of Computation, Science, and Engineering	National Science Foundation

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Canan Bilen-Green	Misc	Office of the Provost	Ramona Danielson Kelly Sassi Charles Stoltenow Jaclynn Walette	\$ 120,000.00	Making Good: Delivering Educational Equity For & With Indigenous Tribal Students & Communities	USDA National Institute of Food & Agriculture
Scott Norenberg	Misc	TRIO		\$ 503,470.00	Trio Student Support Services	Department of Education
Xuefeng Chu	Misc	Water Resources Institute		\$ 125,000.00	North Dakota Water Resources Research Institute 104(b) program	U.S. Geological Survey
Marianne Quittschreiber	Misc	Wellness Center		\$ 633.13	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Brenda Lantz	UGPTI	Upper Great Plains Transportation Institute		\$ 440,964.00	HP-CMV Application - Improving CMV Safety through University Partnerships with a Focus on, Distracted Driving and Work Zone Safety: The FMCSA WSC Commercial Vehicle Safety Center and Summit	Federal Motor Carrier Safety Administration
Denver Tolliver	UGPTI	Upper Great Plains Transportation Institute		\$ 2,583,300.00	Mountain Plains Consortium Transportation Centers Program Opportunity No. UTCOPENCOMP2016	Department of Transportation
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute	Alan Dybing	\$ 58,268.00	Grain Transportation Market Information Gathering	USDA Agricultural Marketing Service
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 4,575.00	ND Grain Movement Database: Corn Transportation	ND Corn Utilization Council
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 64,095.00	Grain Transportation Market Information Gathering	USDA Agricultural Marketing Service