

AWARD REPORT

February 2022

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Sponsor Name	Title
Gregory Endres	AES & EXT	AES Carrington Research / Extension Center	Leandro Bortolon Michael Ostlie	\$9,000.00	ND Soybean Council	Winter rye cover crop establishment options, and soybean response to prior-year phosphorus application
Gregory Endres	AES & EXT	AES Carrington Research / Extension Center	Joseph Ikley Brian Jenks Michael Ostlie	\$7,145.00	ND Soybean Council	Soybean tolerance to preplant-applied dicamba
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center	Kelly Cooper	\$35,000.00	ND Soybean Council	Optimizing fungicide application frequency and application interval relative to soybean maturity for improved white mold management in soybeans
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center	Kelly Cooper	\$66,200.00	ND Soybean Council	Optimizing fungicide spray volume for improved white mold management in soybeans
Christopher Augustin	AES & EXT	AES Dickinson Research / Extension Center	Ryan Buetow	\$26,780.00	ND Soybean Council	Liming Impacts on Soybean and Soils in Western North Dakota
Ryan Buetow	AES & EXT	AES Dickinson Research / Extension Center		\$11,525.00	ND Soybean Council	Alternative Soybean Production Management Options in Acidic Soils
Caleb Dalley	AES & EXT	AES Hettinger Research / Extension Center		\$5,000.00	ND Soybean Council	Timing of pre-plant herbicide programs for weed control in no-till soybeans in southwest North Dakota
Benjamin Geaumont	AES & EXT	AES Hettinger Research / Extension Center		\$8,976.00	ND Game and Fish Department	Introducing prescribed fire on private lands managed by the Game and Fish Department
Barney Geddes	AES & EXT	AES Microbiological Sciences		\$450,000.00	Foundation for Food & Agricultural Research	Creating a nitrogen-fixing symbiont for cereal crops
Barney Geddes	AES & EXT	AES Microbiological Sciences		\$14,959.00	ND Soybean Council	A tool for cheap and rapid tracking of soybean inoculant populations in field soil (year 2)
Thomas Baldwin	AES & EXT	AES Plant Pathology		\$4,000.00	ND Barley Council	Genetic Diversity and Virulence of Barley Bacterial Leaf Streak Pathogen in North Dakota
Mohamed F Khan	AES & EXT	AES Plant Pathology		\$45,557.00	ND Soybean Council	Impact of Crop Sequence and Tillage on Crop Yield and Quality, Soil Nutrients, pH, Texture and Microbial Population
Julie Pasche	AES & EXT	AES Plant Pathology		\$5,155.20	PepsiCo. Inc.	Evaluation of Chipping Lines for Reaction to PMTV
Jack Rasmussen	AES & EXT	AES Plant Pathology	Hui Yan	\$66,050.00	ND Soybean Council	Resistance to Important Soybean Diseases
Guiping Yan	AES & EXT	AES Plant Pathology	Samuel Markell Carrie Miranda	\$61,643.00	ND Soybean Council	Resistance of Soybean Cultivars and Breeding Lines to Soybean Cyst Nematode
Guiping Yan	AES & EXT	AES Plant Pathology		\$9,565.00	ND Soybean Council	Develop a New Recombinase Polymerase Amplification Assay for Rapid Detection of the Root-Lesion Nematode <i>Pratylenchus Dakotaensis</i> from Soil
Michael Christoffers	AES & EXT	AES Plant Sciences		\$6,683.00	ND Soybean Council	Reversing Herbicide Resistance in Waterhemp and Palmer Amaranth
Richard Horsley	AES & EXT	AES Plant Sciences		\$9,600.00	U.S. Wheat Associates Inc	Fee Testing
Joseph Ikley	AES & EXT	AES Plant Sciences		\$26,861.00	ND Soybean Council	Optimal Respray Intervals for Glufosinate, 2,4-D, and Dicamba on Glyphosate-Resistant Waterhemp and Palmer Amaranth
Quincy Law	AES & EXT	AES Plant Sciences	Joseph Ikley	\$31,003.00	ND Soybean Council	Soybean Yield Interference of Palmer Amaranth and Waterhemp in North Dakota
Carrie Miranda	AES & EXT	AES Plant Sciences		\$232,812.00	ND Soybean Council	Breeding of Glyphosate-Resistant Soybean Cultivars

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Carrie Miranda	AES & EXT	AES Plant Sciences		\$162,516.00	ND Soybean Council	Breeding of Improved Non-GMO Cultivars and Germplasm
Carrie Miranda	AES & EXT	AES Plant Sciences		\$86,275.00	ND Soybean Council	Visual Ratings for Iron-Deficiency Chlorosis
Andrew Robinson	AES & EXT	AES Plant Sciences	Erik Hanson	\$114,740.00	USDA-AMS / MN Department of Agriculture	Reducing Row Spacing of Fresh Potatoes to Increase Sustainability
Larry Cihacek	AES & EXT	AES School of Natural Resource Sciences		\$4,517.00	ND Soybean Council	Field Validation if Mineral N Cycling from Mixed Crop Residues in Long-term No-till Systems
Abbey Wick	AES & EXT	AES School of Natural Resource Sciences	Marisol Berti Aaron Daigh Gregory Endres Caley Gasch Naeem Kalwar	\$19,829.00	ND Soybean Council	Soil Health and Agriculture Research Extension (SHARE) Farm Research - Logan Center, ND
Gautam Pradhan	AES & EXT	AES Williston Research / Extension Center	James Staricka Tyler Tjelde	\$26,200.00	ND Soybean Council	Determination of optimum irrigation amount and timing for enhanced soybean yield, quality, water productivity, and soil health under semiarid western ND
Diane Hahn	AES & EXT	Extension Center for 4-H Youth Development		\$30,000.00	USDA-NIFA / Kansas State University	Department of Air Force 4-H Military Partnership Outreach and Support
Leigh Skurupey	AES & EXT	Extension Center for 4-H Youth Development		\$15,000.00	National 4-H Council	4-H Pollinator Habitat Program
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$25,000.00	HRSA / ND Department of Health	On the Move to Better Health with Nutrition and Physical Activity 2022
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$3,000.00	NEAFCS Endowment Foundation	Exploring Regional Extension Teamwork and Best Practices
Janet Knodel	AES & EXT	Extension Plant Pathology	Veronica Calles Torres	\$18,000.00	ND Soybean Council	Soybean Gall Midge Survey in North Dakota
Samuel Markell	AES & EXT	Extension Plant Pathology	Guiping Yan	\$62,580.00	ND Soybean Council	Soybean Cyst Nematode Sampling Program: 2022
Samuel Markell	AES & EXT	Extension Plant Pathology		\$22,320.00	ND Soybean Council	Sudden Death Syndrome - Short Course
Andrew Robinson	AES & EXT	Extension Plant Sciences		\$12,500.00	MN Area II Potato Growers	Operational Needs for the Potato Extension Specialist
Thomas Krumel	CAFSNR	Agribusiness and Applied Economics		\$31,174.00	USDA-NIFA / University of Connecticut	Strategies for Economic Growth in Rural New England and Their Impact on Public-Health Crises
Nancy Hodur	CAHSS	Center for Social Research		\$74,964.00	American Crystal Sugar Company	Economic Contribution of the Sugarbeet Industry in North Dakota, Minnesota, South Dakota and Montana
Nancy Hodur	CAHSS	Center for Social Research		\$12,416.00	ND Ethanol Council	Financial Survey of North Dakota Ethanol Industry
Zoltan Majdik	CAHSS	Communication		\$17,217.00	NIH / University Of Texas at Austin	SCISIPBIO: A Network Science Approach to Conflicts of Interest Metrics, Policies and Communication Design
Kelly Sassi	CAHSS	English		\$3,165.13	ED / National Writing Project	2021 NWP i3 Scale-up Year 4 Late Start Professional Development Proposal
Zhibin Lin	CENG	Civil & Environmental Engineering		\$60,000.00	Federal Highway Administration / University of Wisconsin - Milwaukee	Improving Bridge Concrete Overlay Performance
Simone Ludwig	CENG	Computer Science		\$514,253.00	National Science Foundation	REU Site: Research Experience for Undergraduates on Big Data Analytics and Machine Learning
Jeremy Straub	CENG	Computer Science		\$999,652.00	Office of the Secretary of Defense	Study of Advanced Cybersecurity Techniques to Advance the Security of Power Generation SCADA Systems Supporting MDA Capabilities

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Jordi Esteveordal	CENG	Mechanical Engineering	William Refling Yildirim Bora Suzen Yan Zhang	\$195,375.00	U.S. Air Force	Scientific-Grade Wind Tunnel for NDSU Advanced Unsteady Aerodynamics Research
Jordi Esteveordal	CENG	Mechanical Engineering	Yildirim Bora Suzen Yan Zhang	\$521,340.00	U.S. Navy	DoD DURIP FY2022: High-Speed Volumetric Measurement System for Spatially and Temporally Resolved Flow and Surface Measurements
Long Jiang	CENG	Mechanical Engineering	Dean Webster	\$77,015.00	Cotton Incorporated	Initial Investigation of Cotton Plant Derived Synthetic Leather
Alan Kallmeyer	CENG	Mechanical Engineering		\$2,000.00	University of North Dakota	SAE Formula Car Competition
Sanku Mallik	CHP	Pharmaceutical Sciences		\$25,000.00	NIH / University of North Dakota	Mechanistic studies on lung metastasis of breast cancer and Covid-19 infection
Elizabeth Skoy	CHP	Pharmacy Practice		\$20,000.00	W Virginia Drug Intervention Institute	Implementation of the ONE Program with West Virginia Drug Intervention Institute, Inc.
Paul Carson	CHP	Public Health		\$140,000.00	CDC / ND Department of Health	Increasing Provider Awareness of HIV and STD Services and Best Practices
Paul Carson	CHP	Public Health		\$60,000.00	CDC / ND Department of Health	Increasing Provider Awareness of HIV and STD Services and Best Practices CFDA93.940
Gretchen Dobervich	CHP	Public Health		\$29,859.00	MHA Nation	MHA Nation Assisted Living Facility
Ryan Eagle	CHP	Public Health		\$112,751.00	MHA Nation	MHA Nation Tribal Health Services Assessment Project
Ryan McGrath	CHSE	Health, Nutrition & Exercise Sciences		\$8,036.00	NIH / University of Nebraska Medical Center	The Great Plains Internet Wellness for Aging Study: The GP I-WAS Project (2.0)
Laura Dahl	CHSE	School of Education		\$2,100.00	Elon University	Assessment of Collegiate Residential Environments and Outcomes (ACREO) at Elon University
Katie Reindl	CSM	Biological Sciences		\$37,500.00	NIH / University of North Dakota	Cancer-selective therapeutic effects of piperlongumine
Dean Webster	CSM	Coatings & Polymeric Materials		\$32,550.00	USDA-NIFA / University of North Dakota	Synthesis of Novel Biomass-derived Plastics Using Photoenergy
Dean Webster	CSM	Coatings & Polymeric Materials		\$23,304.00	USDA-NIFA / University of North Dakota	Synthesis of Novel Biomass-derived Plastics Using Photoenergy
Emily Hegg	Misc	Student Health Services		\$8,000.00	CDC / ND Department of Health	HIV/HCV Prevention
Colleen Fitzgerald	Misc	VP for Research		\$130,744.00	National Science Foundation	Strengthening Capacity in Dynamic Language Infrastructure for Tribal Nations
Marianne Quittschreiber	Misc	Wellness Center		\$1,295.73	ND Department of Public Instruction	NDSU Wellness Center Child Care ND Food Program