

AWARD REPORT

February 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Nurun Nahar	AES & EXT	AES Agricultural & Biosystems Engineering	Mijia Yang	\$ 52,316.00	CoRncrete: A Corn-based Construction Material to Replace Cement	ND Corn Utilization Council
Carl Dahlen	AES & EXT	AES Animal Sciences	Ana Clara Menezes Kevin Sedivec Kendall Swanson	\$ 49,983.00	Impacts of feeding a corn-based supplement on beef heifers, their offspring, and grand-daughters	ND Corn Utilization Council
Lawrence Reynolds	AES & EXT	AES Animal Sciences		\$ 500,000.00	Role of placental and fetal pregnanes and their metabolites in parturition and extra uterine survival	USDA National Institute of Food & Agriculture
Gregory Endres	AES & EXT	AES Carrington Research / Extension Center	Joseph Ikley Brian Jenks Michael Ostlie	\$ 6,770.00	Soybean and other broadleaf-row crop tolerance to preplant low-dose application of dicamba	ND Soybean Council
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center		\$ 13,556.00	Determining rye safety to soybeans with soil moisture status	ND Soybean Council
Blaine Schatz	AES & EXT	AES Carrington Research / Extension Center	Kelly Cooper	\$ 235,710.56	Irrigated Crop Production in Central and Southeast North Dakota	Garrison Diversion Conervancy District
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center		\$ 30,830.00	Optimizing fungicide application frequency and application interval relative to soybean maturity for improved white mold management in soybeans	ND Soybean Council
Christopher Augustin	AES & EXT	AES Dickinson Research / Extension Center	Ryan Buetow	\$ 26,780.00	Surface Lime Impacts on Corn and Western North Dakota No-till Soils	ND Corn Utilization Council
Christopher Augustin	AES & EXT	AES Dickinson Research / Extension Center	Ryan Buetow	\$ 26,780.00	Surface Lime Impacts on Soybeans and Different Western North Dakota No-till Soils	ND Soybean Council
Ryan Buetow	AES & EXT	AES Dickinson Research / Extension Center		\$ 11,525.00	Alternative Soybean Production Management Options in Acidic Soils	ND Soybean Council
Douglas Landblom	AES & EXT	AES Dickinson Research / Extension Center	Ryan Buetow Lauren Hanna Bryon Parman	\$ 499,991.00	Novel merging of heifer reproductive and management systems efficiencies to expand small and medium-sized farm business profit	USDA National Institute of Food & Agriculture
Samiran Banerjee	AES & EXT	AES Microbiological Sciences	Caley Gasch	\$ 31,928.00	Contributions of beneficial soil microbes to corn yield	ND Corn Utilization Council
Barney Geddes	AES & EXT	AES Microbiological Sciences		\$ 5,978.00	A tool for cheap and rapid tracking of soybean inoculant populations in field soil	ND Soybean Council
Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 13,600.00	Evaluation of Products for Control of FHB	BioConsortia, Inc
Andrew Friskop	AES & EXT	AES Plant Pathology	Zhao Zhang	\$ 14,235.00	Effect of Plant Protection Products on Goss's Wilt Severity and Protection of Yield	ND Corn Utilization Council
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 35,500.00	Best Pest Management of Pyrethroid Resistant Soybean Aphids and Soybean Gall Midge Survey	ND Soybean Council
Berlin Nelson	AES & EXT	AES Plant Pathology		\$ 61,850.00	Resistance to Important Soybean Diseases	ND Soybean Council
Berlin Nelson	AES & EXT	AES Plant Pathology		\$ 6,650.00	Virulent Races of Phytophthora Root Rot in North Dakota	ND Soybean Council

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Guiping Yan	AES & EXT	AES Plant Pathology		\$ 8,898.00	Validation of Resistance and Parasitism Genes Associated with Infection of Corn Roots by Root-Lesion Nematode	ND Corn Utilization Council
Guiping Yan	AES & EXT	AES Plant Pathology		\$ 7,740.00	Identification of Suppressive Soil for Managing Soybean Cyst Nematode in North Dakota	ND Soybean Council
Guiping Yan	AES & EXT	AES Plant Pathology		\$ 46,850.00	Resistance of Soybean Cultivars and Germplasm to Soybean Cyst Nematode	ND Soybean Council
Marisol Berti	AES & EXT	AES Plant Sciences	Andrea Cecchin	\$ 30,578.00	Comparing and Prioritizing Conservation Practices to Enhance Soil Fertility and Productivity in Corn Cropping Systems	ND Corn Utilization Council
Bingcan Chen	AES & EXT	AES Plant Sciences	Hui Li	\$ 34,450.00	Formation of Non-Aqueous Air-in-Corn Oil Foams as Functional Bakery Ingredients	ND Corn Utilization Council
Michael Christoffers	AES & EXT	AES Plant Sciences		\$ 24,370.00	Optimizing Transformation of Waterhemp Cell Cultures	ND Corn Utilization Council
Michael Christoffers	AES & EXT	AES Plant Sciences		\$ 6,275.00	Reversing Herbicide Resistance in Waterhemp: Gene Editing of ALS	ND Soybean Council
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 20,000.00	Utility of an Oat Cover Crop for Iron Deficiency Chlorosis and Waterhemp Management	ND Soybean Council
Michael McMullen	AES & EXT	AES Plant Sciences	Sepehr Mohajeri Naraghi	\$ 500,000.00	Genomic Approaches for Improving Durable Crown Rust Resistance and Nutritional Quality in Oats	USDA National Institute of Food & Agriculture
Carrie Miranda	AES & EXT	AES Plant Sciences		\$ 248,282.00	Breeding of Glyphosate-Resistant Soybean Cultivars	ND Soybean Council
Carrie Miranda	AES & EXT	AES Plant Sciences		\$ 137,044.00	Breeding of Improved Non-GMO Cultivars and Germplasm	ND Soybean Council
Carrie Miranda	AES & EXT	AES Plant Sciences		\$ 87,316.00	Visual Ratings for Iron-Deficiency Chlorosis	ND Soybean Council
Kalidas Shetty	AES & EXT	AES Plant Sciences	Dipayan Sarkar	\$ 18,560.00	Seed Treatment Innovation to Improve Abiotic Stress Resilience and Nitrogen Utilization Efficiency in Corn	ND Corn Utilization Council
Larry Cihacek	AES & EXT	AES School of Natural Resource Sciences		\$ 3,955.00	Field Validation of Mineral N Cycling from Mixed Crop Residues in Long-term No-till Systems	ND Corn Utilization Council
Larry Cihacek	AES & EXT	AES School of Natural Resource Sciences		\$ 3,872.00	Field Validation of Mineral N Cycling from Mixed Crop Residues in Long-term No-till Systems	ND Soybean Council
Abbey Wick	AES & EXT	AES School of Natural Resource Sciences	Marisol Berti Francis Casey Aaron Daigh Gregory Endres Caley Gasch Naeem Kalwar Michael Ostlie	\$ 53,962.00	Research and Extension Efforts at the Soil Health and Agriculture Research Extension (SHARE) Farms in Mooreton, ND and Logan Center, ND	ND Corn Utilization Council

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Abbey Wick	AES & EXT	AES School of Natural Resource Sciences	Marisol Berti Francis Casey Aaron Daigh Gregory Endres Caley Gasch Naeem Kalwar Michael Ostlie	\$ 43,883.00	Soil Health and Agriculture Research Extension (SHARE) Farm Research Projects in Mooreton, ND and Logan Center, ND	ND Soybean Council
Jerald Bergman	AES & EXT	AES Williston Research / Extension Center		\$ 25,000.00	WREC Seed Conditioning Facility	Farm Credit Services of North Dakota
Gautam Pradhan	AES & EXT	AES Williston Research / Extension Center	Jerald Bergman James Staricka	\$ 11,637.00	Determining suitable planting date and soil temperature for enhanced growth and yield of soybean under no-till semi-arid conditions	ND Soybean Council
Gautam Pradhan	AES & EXT	AES Williston Research / Extension Center	James Staricka Tyler Tjelde	\$ 22,382.00	Determination of optimum irrigation amount and timing for enhanced soybean yield, quality, water productivity, and soil health under semi-arid western ND	ND Soybean Council
Gregory Endres	AES & EXT	Extension Carrington Research / Extension Center	Michael Ostlie	\$ 4,900.00	Winter rye cover crop management techniques for soybean	ND Soybean Council
Meagan Hoffman	AES & EXT	Extension Center for 4-H Youth Dev		\$ 2,500.00	Set up and implementation of training programs for best practices in evaluation and PYD	S.D. Bechtel Jr. Foundation / National 4-H Council
Marie Hvidsten	AES & EXT	Extension Center for Community Vitality		\$ 2,000.00	RLND Lessons in Leadership Series	BNSF Railway Foundation
Jane Strommen	AES & EXT	Extension Child Development & Family Science		\$ 123,409.00	Evidence-Based Disease Prevention and Health Promotion Services	Administration for Community Living / ND Department of Human Services
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$ 500.00	2020-21 Eat Smart Play Hard - NDNC	ND Nutrition Council
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$ 2,500.00	Pulse Growers Eat Smart. Play Hard 2021	Northern Pulse Growers Association
Samuel Markell	AES & EXT	Extension Plant Pathology	Guiping Yan	\$ 62,580.00	Soybean Cyst Nematode Sampling Program: 2021	ND Soybean Council
David Boehm	CAFSNR	Northern Crops Institute		\$ 22,502.00	Determination of milling efficiency use when processing corns from different origins (U.S., Argentina, Brazil and Ukraine), during size reduction and pelleting operations.	MN Corn Research & Promotion Council
David Boehm	CAFSNR	Northern Crops Institute		\$ 7,400.00	Food Development With Soybean Okara	MN Soybean Research & Promotion Council / Agricultural Utilization Research Institute
David Boehm	CAFSNR	Northern Crops Institute		\$ 22,502.50	Determination of milling efficiency use when processing corns from different origins (U.S., Argentina, Brazil and Ukraine), during size reduction and pelleting operations.	ND Corn Utilization Council

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David Boehm	CAFSNR	Northern Crops Institute		\$ 88,925.00	Analytics for isoflavones and soymilk / tofu yields for a soy foods database	U.S. Soybean Export Council
Todd West	CAFSNR	Plant Sciences		\$ 5,000.00	Dakota Digital Academy Course Design and Development - PLSC 355	Department of Treasury / ND University System Office
Benjamin Bernard	CAHSS	Architecture & Landscape Architecture		\$ 5,000.00	Dakota Digital Academy Course Design and Development Award	Department of Treasury / ND University System Office
Dominic Fischer	CAHSS	Architecture & Landscape Architecture	Anna Maria Visilia	\$ 10,000.00	On-A-Slant Initiative at Fort Abraham Lincoln State Park Asset Condition Assessment	National Park Service / Northern Plains National Heritage Foundation
Ravi Yellavajjala	CENG	Civil & Environmental Engineering		\$ 24,040.00	Corn-based Hydrogels for High-Performance Concrete	ND Corn Utilization Council
Ravi Yellavajjala	CENG	Civil & Environmental Engineering		\$ 24,540.00	Corn-derived Emulsions for Corrosion Protection of Oil Pipelines	ND Corn Utilization Council
Dharmakeerthi Nawarathna	CENG	Electrical & Computer Engineering		\$ 66,265.00	CAREER: Ultrafast molecular separation and integrated near-field light-metal-fluorophore interactions for biomarker detection at point-of care	National Science Foundation
Lokesh Narayanan	CENG	Industrial & Manufacturing Engineering		\$ 9,125.00	Strengthening 3D printed (FDM) parts through application of ultrasonic vibration.	Center for Bioplastic and Biocomposites
Long Jiang	CENG	Mechanical Engineering	Dean Webster	\$ 56,383.35	Cottonseed Oil Based Vitrimers for 3D Printing and Other Applications	Cotton Incorporated
Ghodrat Karami	CENG	Mechanical Engineering		\$ 5,000.00	ND Space Grant Concertium -NASA Rover Challenge 2020-2021	University of North Dakota
Paul Carson	CHP	Public Health		\$ 60,000.00	Increasing Provider Awareness of HIV and STD Services and Best Practices	CDC / ND Department of Health
Paul Carson	CHP	Public Health		\$ 40,000.00	Increasing Provider Awareness of HIV and STD Services and Best Practices	CDC / ND Department of Health
Stacy Duffield	CHSE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnership with Concordia University	Concordia University, St. Paul
Brooke Thiel	CHSE	School of Education		\$ 7,500.00	Corteva Agriscience CASE Implementation Grant	Corteva Agriscience / National Association of Agricultural Educators
Erin Gillam	CSM	Biological Sciences		\$ 15,000.00	Impacts of White Nose Syndrome on the Threatened Bat Populations of North Dakota	ND Game and Fish Department
Erin Gillam	CSM	Biological Sciences		\$ 82,455.00	Impacts of White-Nose Syndrome on the Threatened Bat Populations of North Dakota	U.S. Fish and Wildlife Service / ND Game and Fish Department
Mukund Sibi	CSM	Chemistry and Biochemistry	Alexey Leontyev	\$ 390,000.00	REU Site: Green Chemistry at North Dakota State University	National Science Foundation
Mohiuddin Quadir	CSM	Coatings & Polymeric Materials		\$ 51,000.00	Self-sensing Nanoparticles for Corrosion-responsive Release of Inhibitors	U.S. Army / Elinor Specialty Coatings
Andriy Voronov	CSM	Coatings & Polymeric Materials	Ghasideh Pourhashem	\$ 14,616.00	Plant Oil-Based Latex Adhesives (Year 2)	Center for Bioplastic and Biocomposites
Dean Webster	CSM	Coatings & Polymeric Materials		\$ 51,000.00	Glycidyl Carbamate Resin Systems for Coatings	U.S. Army / Elinor Specialty Coatings
Debra Habedank	Misc	Center for Child Development		\$ 613.11	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction

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James Anthony Faris	Misc	MU Operations		\$ 1,243.00	When Places Speak	Alex Stern Family Foundation
Stacy Duffield	Misc	Office of Teaching and Learning		\$ 300.00	Teacher Preparation Common Metrics: Partnership with Otterbein University	Otterbein University
Stacy Duffield	Misc	Office of Teaching and Learning		\$ 585.00	Teacher Preparation Common Metrics: Partnership with University of Alaska Fairbanks	University of Alaska Fairbanks
Stacy Duffield	Misc	Office of Teaching and Learning		\$ 300.00	Teacher Preparation Common Metrics: Partnership with University of Minnesota Morris	University of Minnesota Morris
Jill Motschenbacher	Misc	Office of Teaching and Learning	Margaret Fitzgerald	\$ 110,000.00	K-12 Continuing Education Course Development - North Dakota Governor's Emergency Education Relief (GEER) Funding	DoED / ND Governor's Office
Emily Hegg	Misc	Student Health Services	Megan Talcott	\$ 7,000.00	HIV/HCV Prevention	CDC / ND Department of Health
Marianne Quittschreiber	Misc	Wellness Center		\$ 944.31	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Mohammad Smadi	UGPTI	Upper Great Plains Transportation Institute		\$ 25,385.00	Bismarck-Mandan MPO Regional ITS Architecture Update	Bismarck-Mandan Metro. Planning Org.