

AWARD REPORT

April 2019

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Dean Bangsund	AES & EXT	AES Agribusiness & Applied Economics	Nancy Hodur	\$ 16,385.00	Techo-economic Assessment of CO2 Enhanced Oil Recovery in North Dakota	DOE / University of North Dakota
Halis Simsek	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 4,860.00	Novel application of bacteriophage treatment for biocontrol of biological foaming and bulking in sugarbeet wastewater effluent	NDSU Foundation & Alumni Association
Xinhua Jia	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 21,263.00	Satellite Enhanced Snowmelt Flood Predictions in the Red River of the North Basin	NASA / University of New Hampshire
Anna Grazul-Bilska	AES & EXT	AES Animal Sciences		\$ 2,996.00	Funding request for RM2255 Microtome water trough attachment	NDSU Foundation & Alumni Association
Bryan Neville	AES & EXT	AES Carrington Research/Extension Center	Michael Ostlie	\$ 48,332.00	Optimizing Intercropping Practices for the Production, Preservation, and Utilization of Silage for Livestock Feed	ND Ag Products Utilization Commission
Gregory Endres	AES & EXT	AES Carrington Research/Extension Center	Michael Ostlie	\$ 13,500.00	Evaluation of selected plant establishment factors and nutrition inputs in pinto beans	Northarvest Bean Growers Association
Jasper Teboh	AES & EXT	AES Carrington Research/Extension Center	Ezra Aberle Michael Ostlie Szilvia Yuja	\$ 14,975.00	Sulfur Effects on Malting Barley Grain Yield, and Quality at Low and High Soil Nitrogen	ND Barley Council
Michael Ostlie	AES & EXT	AES Carrington Research/Extension Center	Gregory Endres Paulo Flores Szilvia Yuja	\$ 8,424.00	Optimizing Barley Quality Across Variable Terrain	ND Barley Council
Michael Ostlie	AES & EXT	AES Carrington Research/Extension Center		\$ 8,000.00	Evaluate Postemergence Weed Control From Experimental MON Herbicides; WS19_CHM_HEPO_NXD_W13	Monsanto Co.
Michael Ostlie	AES & EXT	AES Carrington Research/Extension Center		\$ 4,410.00	POST Programs with Warrant in Spring Seeded TrueFlex/LL Stack Canola	Monsanto Co.
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center	Audrey Kalil Tyler Tjelde	\$ 14,780.00	Optimizing Fungicide Tank-Mixes With Chlorothalonil For Improved Management Ascochyta Blight in Chickpeas	Northern Pulse Growers Association
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center	Julie Pasche	\$ 18,730.00	Impact of Planting Date on Fusarium and Aphanomyces Root Rot of Field Peas	Northern Pulse Growers Association
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center	John Rickertsen	\$ 11,780.00	Management of Root Rots of Field Peas With Crop Rotation	Northern Pulse Growers Association
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$ 21,875.00	Improving White Mold Management in Dry Beans	Northarvest Bean Growers Association
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$ 14,000.00	Seed Treatment Evaluations in Canola and Field Pea	Syngenta Crop Protection Inc.
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$ 9,702.00	Evaluation of Seed Treatment in Canola For Rhizoctonia	BASF Corporation
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$ 30,240.00	Evaluation of Foliar Fungicides in Dry Bean, Pea, Lentil and Safflower	BASF Corporation
Ryan Buetow	AES & EXT	AES Dickinson Research/Extension Center		\$ 1,134.00	2019 NDSU Contract testing - at Dickinson Research Center and pH site near the research center	Syngenta Crop Protection Inc.
Caleb Dalley	AES & EXT	AES Hettinger Research/Extension Center		\$ 10,080.00	Evaluation of BAS 8510H for Crop Safety and Weed Efficacy in Accordance With Protocol DEV-H-2019-US HK2-A.	BASF Corporation
Brian Jenks	AES & EXT	AES North Central Research/Extension Center		\$ 4,410.00	Programs with Warrant in Spring Seeded TrueFlex/ILL Stack Canola	Monsanto Co.
Brian Jenks	AES & EXT	AES North Central Research/Extension Center		\$ 18,900.00	Evaluate Efficacy and Crop Selectivity of Burndown with BAS 851H	BASF Corporation

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Eric Eriksmoen	AES & EXT	AES North Central Research/Extension Center	Kelly Cooper Bryan Hanson Herman Kandel Michael Ostlie John Rickertsen Tyler Tjelde	\$ 13,250.00	North Dakota Dry Edible Bean Variety Trials	Northharvest Bean Growers Association
Eric Eriksmoen	AES & EXT	AES North Central Research/Extension Center		\$ 6,000.00	Row Spacing, Seeding Rates and Precision Planting of Dry Edible Bean	Northharvest Bean Growers Association
Eric Eriksmoen	AES & EXT	AES North Central Research/Extension Center		\$ 11,790.00	North Dakota Flax Variety Trials	AmeriFlax
Andrew Friskop	AES & EXT	AES Plant Pathology	Janet Knodel	\$ 9,500.00	2019 Corn Commodity Survey in North Dakota	ND Department of Agriculture
Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 12,600.00	Evaluation of BAS84000F in small grains for control of FHB in accordance with protocol DEV-F-2019-US-EB1-A	BASF Corporation
Gary Secor	AES & EXT	AES Plant Pathology		\$ 33,954.00	Monitoring sensitivity of Cercospora beticola to foliar fungicides in sugar beet fields of Minnesota and North Dakota	Sugarbeet Res. & Edu. Board of MN & ND
Gary Secor	AES & EXT	AES Plant Pathology		\$ 15,000.00	Management of DMI- resistant Cercospora beticola strains using host resistance	Sugarbeet Res. & Edu. Board of MN & ND
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 4,069.00	Evaluating New Insecticides for Wireworm Control in Sunflower	National Sunflower Association
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 38,000.00	Best Pest Management of Flea Beetles and Swede Midge Survey in Canola	Northern Canola Growers Association
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 20,000.00	Syngenta Protocol UPX151A3-2019US & UPX460A3-2019US	Syngenta Crop Protection Inc.
Julie Pasche	AES & EXT	AES Plant Pathology	Samuel Markell	\$ 45,228.00	Dry Edible Bean Disease Research	Northharvest Bean Growers Association
Julie Pasche	AES & EXT	AES Plant Pathology		\$ 24,984.00	Determining the Extent of the Shift in Fungicide Sensitivity of Mycosphaerella Blight Pathogens of Field Pea in North Dakota	Northern Pulse Growers Association
Mohamed Khan	AES & EXT	AES Plant Pathology		\$ 116,060.00	Improving Disease Management and Argonomic Practices of Sugarbeet	Sugarbeet Res. & Edu. Board of MN & ND
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 5,000.00	Effect of Sunflower Growth Stage on Phomopsis Stem Canker Development	National Sunflower Association
Andrew Robinson	AES & EXT	AES Plant Sciences	Neil Gudmestad	\$ 18,000.00	Development of Late Blight Spore Trapping Network	MN Area II Potato Growers
Joel Ransom	AES & EXT	AES Plant Sciences	Burton Johnson	\$ 45,020.00	Cover Crop Management in a Wheat-Soybean System in Northwest Minnesota	MN Wheat Research & Promotion Council
Kalidas Shetty	AES & EXT	AES Plant Sciences	Dipayan Sarkar	\$ 44,902.00	Bio-Based Innovations for Commercialization of High Value Nutraceuticals and Health Ingredients from North Dakota Chickpea	ND Ag. Products Utilization Commission
Kalidas Shetty	AES & EXT	AES Plant Sciences	Dipayan Sarkar	\$ 5,000.00	Micropropagation Innovation for Rapid Screening of Cold Hardy Herb Cultivars for North Dakota	NDSU Foundation & Alumni Association
Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences		\$ 130,809.00	Identifying Loci and Markers Associated with a Simple Dominant Freezing Tolerant Trait in Camelina Sativa	National Institute of Food & Agriculture
Thomas Peters	AES & EXT	AES Plant Sciences		\$ 73,899.00	Weed Control in Sugarbeets	Sugarbeet Res. & Edu. Board of MN & ND
Amitava Chatterjee	AES & EXT	AES School of Natural Resource Sciences	Marisol Berti	\$ 85,460.00	Soil Management for Sugarbeet Production	Sugarbeet Res. & Edu. Board of MN & ND
Daryl Ritchison	AES & EXT	AES School of Natural Resource Sciences		\$ 13,200.00	NDAWN Weather Stations	American Crystal Sugar Company
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 3,000.00	Evaluation of NPGS Beta Accessions for Resistance to Sugarbeet Root Maggot	Beet Sugar Development Foundation

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Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 81,250.00	Sugarbeet Insect Biology and Control	Sugarbeet Res. & Edu. Board of MN & ND
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 9,450.00	Evaluation of A22725B for Insect Control in Sugarbeet	Syngenta Crop Protection Inc.
Thomas DeSutter	AES & EXT	AES School of Natural Resource Sciences	Francis Casey Aaron Daigh Herman Kandel Juan Osorno Joel Ransom	\$ 289,593.00	Phase I: Agricultural Promotion and Capacity Building at NASHO (Rwanda)	Howard G Buffet Foundation
Torre Hovick	AES & EXT	AES School of Natural Resource Sciences	Benjamin Geaumont Ryan Limb Devan McGranahan	\$ 53,302.00	Enhancing Floral Resources for High Conservation Priority Pollinators	U.S. Fish and Wildlife Service / ND Game and Fish Department
Kenneth Hellevang	AES & EXT	Ext Agricultural & Biosystem Engineering	Ewumbua Monono Jasper Teboh	\$ 7,801.00	Impact of Drying and Storage Environment on Green and Semi-Green Soybeans Varieties	ND Soybean Council
Marie Hvidsten	AES & EXT	Ext Center for Community Vitality		\$ 2,000.00	Rural Leadership ND ILAC Conference 2019	BNSF Railway Foundation
Julie Garden-Robinson	AES & EXT	Ext Food & Nutrition		\$ 500.00	Undeniable Dairy	Midwest Dairy Council
Julie Garden-Robinson	AES & EXT	Ext Food & Nutrition		\$ 250.00	Eat Smart, Play Hard	Northern Plains Potato Growers Assn
Janet Knodel	AES & EXT	Ext Plant Pathology		\$ 9,500.00	2019 Wheat Pest Survey in North Dakota	ND Department of Agriculture
Janet Knodel	AES & EXT	Ext Plant Pathology		\$ 5,040.00	Dry Bean Grower Surveys of Pest Problems, Pesticide use and Varieties in 2019	Northarvest Bean Growers Association
Mohamed Khan	AES & EXT	Ext Plant Pathology		\$ 88,429.00	Sugarbeet Extension Programs and Program Maintenance	Sugarbeet Res. & Edu. Board of MN & ND
Mark Jirik	CAFSNR	Northern Crops Institute		\$ 36,500.00	Soy Based Texturized Protein and Meat Analog Course	ND Soybean Council
Mark Jirik	CAFSNR	Northern Crops Institute		\$ 3,440.00	Training for Making Tofu and Fried Tofu in China	ND Soybean Council
Emily Wicktor	CAHSS	English		\$ 764.00	Critical Pedagogy: Scholarly, Popular, and Media Resources	NDSU Foundation & Alumni Association
Emily Wicktor	CAHSS	English		\$ 552.00	Jane Austen Juggernaut: Scholarly, Popular and Media Resources	NDSU Foundation & Alumni Association
Jessica Jung	CAHSS	Theatre Arts		\$ 1,000.00	Theatre NDSU Guest Director	NDSU Foundation & Alumni Association
Beena Ajmera	CENG	Civil & Environmental Engineering		\$ 1,000.00	Rainfall-Intensity Duration Threshold Curves for Post-Wildfire Debris Flows	NDSU Foundation & Alumni Association
David Steward	CENG	Civil & Environmental Engineering		\$ 87,011.00	Mixed Approaches Towards Effective Collective Management of Groundwater Resources	USDA / Kansas State University
Mijia Yang	CENG	Civil & Environmental Engineering	Dong Cao Jeffrey Erickson Yao Yu	\$ 149,060.00	Harnessing Solar Energy through Noise Barriers and Structural Snow Fencing	MN Department of Transportation
Ravi Yellavajjala	CENG	Civil & Environmental Engineering		\$ 2,500.00	Low cost bio-based ionic liquids from corn fructose for corrosion inhibition in pipelines	NDSU Foundation & Alumni Association
Wenjie Xia	CENG	Civil & Environmental Engineering		\$ 5,000.00	Multiscale Modeling of Biopolymer Foams for Advancing their Mechanical Performance	NDSU Foundation & Alumni Association
Yao Yu	CENG	Construction Management & Engineering		\$ 2,000.00	Energy Simulation for Dean Residence	Meadowlark
Dali Sun	CENG	Electrical & Computer Engineering		\$ 500.00	Development of the Product-Oriented Learning in the "Instrumentation for Engineer" (ECE 483/693) course.	NDSU Foundation & Alumni Association
Di Wu	CENG	Electrical & Computer Engineering		\$ 1,000.00	Analysis of line failures in a graph theoretical framework for blackout prevention in power grids	NDSU Foundation & Alumni Association
Dong Cao	CENG	Electrical & Computer Engineering		\$ 90,249.00	Development of a High Temperature and High Power Testbed for GaN HMET /SiC based Switching Power Converter for Long-Duration Venus Surface Operations	NASA / University of North Dakota

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Long Jiang	CENG	Mechanical Engineering	Zhaohui Liu Mohiuddin Quadir	\$ 12,455.00	Improving bactericides effectiveness on wheat bacterial leaf streak by using cellulose nanofibers as the bactericides delivery vehicle	NDSU Foundation & Alumni Association
Xiangfa Wu	CENG	Mechanical Engineering		\$ 3,750.00	NDSU Development Foundation: High-Temperature Polymer Electrolyte Membranes (PEMS) for Direct Bioethanol Fuel Cells	NDSU Foundation & Alumni Association
Yechun Wang	CENG	Mechanical Engineering	Long Jiang	\$ 5,000.00	Degradation of Silk Fibroin Scaffold for Knee Cartilage Replacement	NDSU Foundation & Alumni Association
Kyle Hackney	CHDE	Health, Nutrition & Exercise Sciences	Nathaniel Johnson Ryan McGrath Sherri Stastny	\$ 26,106.00	Systematic Literature Review on Beef and Meat Consumption on Psychological Health	National Cattlemen's Beef Association
Heather Fuller	CHDE	Human Development & Family Science	Andrea Huseh-Zosel Gregory Sanders	\$ 180,000.00	Lutheran Services in America Great Plains Senior Collaborative Evaluation - Phase 2	Lutheran Services in America
Stacy Duffield	CHDE	School of Education		\$ 3,000.00	North Dakota Common Metric Administration	ND Education Standards & Practices Board
Stacy Duffield	CHDE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnershi8p with Zayed University College of Education	Zayed University
Sanku Mallik	CHP	Pharmaceutical Sciences	D K Srivastava	\$ 1,822,547.00	Center for Diagnostic & Therapeutic Strategies in Pancreatic Cancer	National Institutes of Health
Sijo Mathew	CHP	Pharmaceutical Sciences		\$ 54,669.00	Mechanisms Whereby Integrin Beta 1 Regulate Acute Kidney Injury and Recovery	American Heart Association
Heidi Eukel	CHP	Pharmacy Practice	Elizabeth Skoy Mark Strand Amy Werremeyer	\$ 141,055.00	Opioid Misuse and Overdose Risk Prevention	ND Department of Human Services
Ryan Eagle	CHP	Public Health		\$ 86,049.00	Minnesota Department of Health Tribal SHIP & TOBACCO Evaluation Contractor	MN Department of Health
Britt Heidinger	CSM	Biological Sciences		\$ 3,449.00	Collaborative Research: Parental Effects, Telomere Dynamics, and the Cross-generational Consequences of Stressors	National Science Foundation
Jennifer Vangorder-Braid	CSM	Biological Sciences		\$ 1,000.00	Is Telomerase Up-Regulated in Response to Chronic Stress During Post-Natal Development	Society Integrative & Comparative Biology
Ghasideh Pourhashem	CSM	Coatings & Polymeric Materials		\$ 1,000.00	Sustainable Commercialized Production of Bio-Based Resins in Upper Great Plains: Process and Environmental Impacts Assessment	NDSU Foundation & Alumni Association
Debra Habedank	Misc	Center for Child Development		\$ 597.42	USDA Child and Adult Care Food Program	USDA / ND Department of Public Instruction
Debra Habedank	Misc	Center for Child Development		\$ 623.36	USDA Child and Adult Care Food Program	USDA / ND Department of Public Instruction
William Burns	Misc	Counseling Center		\$ 500.00	Destigmatizing Counseling and Mental Health Concerns for NDSU Students	NDSU Foundation & Alumni Association
Brent DeKrey	Misc	Facilities Management		\$ 21,600.00	State Energy Program- Energy Efficiency Upgrades	DOE / ND Department of Commerce
Jill Motschenbacher	Misc	Office of Teaching & Learning		\$ 12,620.00	IRES: Track I: USA-China: International Research Experience for Native American Students in IoT Enabled Environmental Monitoring Technology	NSF / University of South Alabama
Sara Mwangura	Misc	Wellness Center		\$ 1,005.84	NDSU Wellness Center Child Care ND Food Program	USDA / ND Department of Public Instruction