

**Calendar Year:** 2019  
**Month:** Nov

**Award Count:** 120  
**Award Total:** \$24,254,935

Award Amount	Sponsor	Award Title	PI	Lead Org Unit	Lead Org Dept	Award Number	Activity Type	Start Date	End Date	Award Register Date	Account
\$3,130,511	DOE-US DEPARTMENT OF ENERGY	AMES LAB	SCHWARTZ, ADAM	AMES LABORATORY	AMES LABORATORY	004881-00001	Research	1/1/1981	12/31/2021	NOV. 2019	4012501
\$2,810,000	VARIOUS ISUF DONORS-INDUSTRY/CORPORATE	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021058-00001	Operations & Maintenance	6/1/2019	5/31/2020	NOV. 2019	
\$1,566,815	VARIOUS ISUF DONORS-INDIVIDUAL	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021056-00001	Institutional Support	6/1/2019	5/31/2020	NOV. 2019	
\$1,380,161	VARIOUS ISUF DONORS-INDIVIDUAL	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021052-00001	Scholarships & Fellowships	6/1/2019	5/31/2020	NOV. 2019	
\$1,100,383	ED-US DEPARTMENT OF EDUCATION	SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG) FY2020	JOHNSON, ROBERTA L	ADMINISTRATION	ACCOUNTS RECEIVABLE	020677-00001	Student Financial Aid	7/1/2019	6/30/2020	NOV. 2019	4325816
\$1,091,065	VARIOUS ISUF DONORS-INDIVIDUAL	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021054-00001	Academic Support	6/1/2019	5/31/2020	NOV. 2019	
\$1,000,000	DOE-NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)	ROBUST LEARNING OF DYNAMIC INTERACTIONS FOR ENHANCING POWER SYSTEMS RESILIENCE	WANG, ZHAOYU	COLLEGE OF ENGINEERING	ELECTRIC POWER RESEARCH CTR	021653-00001	Research	10/1/2019	3/31/2021	NOV. 2019	021653
\$1,000,000	NSF-NATIONAL SCIENCE FOUNDATION	CPS: MEDIUM: DATA-DRIVEN CAUSALITY MAPPING, SYSTEM IDENTIFICATION AND DYNAMICS CHARACTERIZATION FOR FUTURE POWER GRID	AJJARAPU, VENKATARAMANA	COLLEGE OF ENGINEERING	ELECTRIC POWER RESEARCH CTR	021700-00001	Research	9/15/2019	8/31/2022	NOV. 2019	021700

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\$643,739	VARIOUS ISUF DONORS-NONPROFIT	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021066-00001	Institutional Support	6/1/2019	5/31/2020	NOV. 2019	
\$600,000	DOE-US DEPARTMENT OF ENERGY	RELATIVISTIC HEAVY ION PHYSICS	LAJOIE, JOHN G	COLLEGE OF LIBERAL ARTS & SCIENCES	PHYSICS & ASTRONOMY	006971-00001	Research	11/15/1991	11/14/2020	NOV. 2019	4012109
\$590,000	DEERE & COMPANY	ADVANCED APPLICATION TECHNOLOGY DEVELOPMENT PROGRAM, PHASE 3	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021688-00001	Research	9/1/2019	10/31/2020	NOV. 2019	021688
\$425,000	DEERE & COMPANY	BOOM DESIGN AND CONTROL SYSTEM DEVELOPMENT, PHASE 3	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021662-00001	Research	9/1/2019	10/31/2020	NOV. 2019	021662
\$409,751	VARIOUS ISUF DONORS-INDIVIDUAL	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021053-00001	Operations & Maintenance	6/1/2019	5/31/2020	NOV. 2019	
\$400,000	DEERE & COMPANY	CROP HARVESTING SENSOR INNOVATIONS, PHASE 7	MCNAULL, ROBERT P	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021695-00001	Research	11/1/2019	10/31/2020	NOV. 2019	021695
\$397,621	VARIOUS ISUF DONORS-INDUSTRY/CORPORATE	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021061-00001	Institutional Support	6/1/2019	5/31/2020	NOV. 2019	
\$389,926	IOWA DEPARTMENT OF TRANSPORTATION	DEVELOPMENT OF APPROACHES TO QUANTIFY SUPERLOADS AND THEIR IMPACTS ON THE IOWA ROAD INFRASTRUCTURE SYSTEM	CEYLAN, HALIL	VP FOR RESEARCH	INST FOR TRANSPORTATION (INTRANS)	021666-00001	Research	11/1/2019	10/31/2022	NOV. 2019	021666
\$365,000	DEERE & COMPANY	BOOM CONTROLS CONTINUOUS	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021642-00001	Research	11/1/2019	10/31/2020	NOV. 2019	021642

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		IMPROVEMENT, PHASE 1									
\$337,668	ED-US DEPARTMENT OF EDUCATION	COLLEGE WORK STUDY (CWS) HOURLY	JOHNSON, ROBERTA L	VICE PRESIDENT FOR STUDENT AFFAIRS	FIN AID SCHOLARSHIPS	020676-00001	Student Financial Aid	7/1/2019	6/30/2020	NOV. 2019	4325810
\$321,572	IOWA DEPARTMENT OF NATURAL RESOURCES	IOWA NUTRIENT RESEARCH CENTER STATE FUNDING	HELMERS, MATTHEW JUSTIN	AG EXPERIMENT STATION	IOWA NUTRIENT RESEARCH CTR	017527-00001	Research	7/1/2017	6/30/2020	NOV. 2019	4734505
\$305,422	VARIOUS ISUF DONORS- INDUSTRY/ CORPORATE	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021057-00001	Scholarships & Fellowships	6/1/2019	5/31/2020	NOV. 2019	
\$301,933	ED-US DEPARTMENT OF EDUCATION	PELL GRANT, FY20	JOHNSON, ROBERTA L	VICE PRESIDENT FOR STUDENT AFFAIRS	STUDENT FINANCIAL AID	021580-00001	Student Financial Aid	7/1/2019	6/30/2020	NOV. 2019	
\$250,000	DEERE & COMPANY	CAB INNOVATIONS, PHASE 6	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021645-00001	Research	11/1/2019	10/31/2020	NOV. 2019	021645
\$249,999	NSF-NATIONAL SCIENCE FOUNDATION	NNA TRACK 2: RESPONDING TO THE HOUSING CRISIS IN THE ARCTIC: A TRANSDISCIPLINARY APPROACH ACROSS PHYSICAL, NATURAL AND SOCIAL SYSTEMS	POLEACOVSKI, CRISTINA	COLLEGE OF ENGINEERING	CIVIL, CONSTR & ENVIRONMENTAL ENGR	021665-00001	Research	1/1/2020	12/31/2021	NOV. 2019	021665
\$236,750	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	TELEHEALTH FOR SWINE MEDICINE: TOOLS TO SUPPORT SHORTAGE SITUATIONS, EXPAND SURGE CAPACITY, AND TEACH STUDENTS WITH LESS BIOSECURITY RISK	KARRIKER, LOCKE A	COLLEGE OF VETERINARY MEDICINE	VET DIAGNOSTIC & PRODUCTION ANIMAL MED	021681-00001	Instruction	9/1/2019	8/31/2022	NOV. 2019	021681

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\$225,750	UNIVERSITY OF CALIFORNIA DAVIS	A FRAMEWORK FOR IMPROVING ANALYSIS AND MODELING OF EARTH SYSTEM AND INTERSECTORAL DYNAMICS AT REGIONAL SCALES	GUTOWSKI, WILLIAM J JR.	COLLEGE OF LIBERAL ARTS & SCIENCES	GEOLOGICAL & ATMOSPHERIC SCIENCES	021707-00001	Research	9/1/2019	8/31/2020	NOV. 2019	021707
\$220,000	BASF CORPORATION	LOOK AHEAD SELECTION FOR GENOMIC SELECTION WITH GXE	WANG, LIZHI	COLLEGE OF ENGINEERING	INDUSTRIAL & MANUFACTURING SYSTEMS ENGR	021636-00001	Research	9/1/2019	8/31/2021	NOV. 2019	021636
\$208,313	NIH-NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING (NIBIB)	PARALLEL SELECTIVE CAPTURE OF SINGLE CIRCULATING MELANOMA CELLS AND INTEGRATED ON-CHIP DETERMINATION OF MUTATIONAL STATUS	ANAND, ROBBYN KIMBERLY	COLLEGE OF LIBERAL ARTS & SCIENCES	CHEMISTRY	021655-00001	Research	8/1/2019	4/30/2020	NOV. 2019	021655
\$187,000	NORTH CENTRAL SOYBEAN RESEARCH	DEVELOPING AN INTEGRATED MANAGEMENT AND COMMUNICATION PLAN FOR SOYBEAN SUDDEN DEATH SYNDROME	MUELLER, DAREN SHANE	UNIVERSITY & COOPERATIVE EXTENSION	PLANT PATHOLOGY	021727-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021727
\$179,823	UNIVERSITY OF MICHIGAN	MICROBIAL COMPETITION FOR COPPER: IMPACTS ON CARBON AND NITROGEN CYCLING	DISPIRITO, ALAN ANGELO	AG EXPERIMENT STATION	BIOCHEMISTRY & BIOPHYSICS	021667-00001	Research	9/15/2019	9/14/2020	NOV. 2019	021667
\$178,745	IOWA DEPARTMENT OF NATURAL RESOURCES	ECONOMIC IMPACT AND VALUE OF PRESERVING AND RESTORING WATER QUALITY IN IOWA'S	ZHANG, WENDONG	AG EXPERIMENT STATION	CENTER FOR AG & RURAL DEVELOPMENT	021690-00001	Research	9/12/2019	12/31/2020	NOV. 2019	021690

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		LAKES- A SURVEY OF LAKE USAGE FOR IOWA LAKES AND THE ECONOMIC IMPACT FOR LOCAL COMMUNITIES									
\$151,400	VARIOUS ISUF DONORS-INDUSTRY/ CORPORATE	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021060-00001	Research	6/1/2019	5/31/2020	NOV. 2019	
\$139,879	PENNSYLVANIA STATE UNIVERSITY	PATHWAYS TO HEALTH FROM ADOLESCENCE THROUGH YOUNG ADULTHOOD	REDMOND, CLEVER	COLLEGE OF HUMAN SCIENCES	HUMAN DEVELOPMENT & FAMILY STUDIES	018548-00001	Research	9/12/2017	6/30/2020	NOV. 2019	4042881
\$134,976	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	DEVELOPING A COORDINATED EFFORT WITHIN IOWA TO IMPLEMENT AN INFRASTRUCTURE, EDUCATION, TECHNICAL ASSISTANCE, AND INVENTORY PROGRAM IN ALIGNMENT WITH THE FDA'S PRODUCE SAFETY RULE	SHAW, ANGELA MARIE	UNIVERSITY & COOPERATIVE EXTENSION	FOOD SCIENCE & HUMAN NUTRITION	021715-00001	Public Service	7/1/2019	6/30/2020	NOV. 2019	021715
\$118,895	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300022	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021605-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021605
\$116,217	UNIVERSITY OF NEBRASKA LINCOLN	INCREASING GENETIC DIVERSITY, YIELD, AND PROTEIN OF US COMMERCIAL	SINGH, ASHEESH KUMAR	AG EXPERIMENT STATION	AGRONOMY	021737-00001	Research	10/1/2019	8/31/2021	NOV. 2019	021737

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		SOYBEAN GERMPASM									
\$110,125	VARIOUS ISUF DONORS-NONPROFIT	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021063-00001	Operations & Maintenance	6/1/2019	5/31/2020	NOV. 2019	
\$100,000	MIDAMERICAN ENERGY COMPANY	EPRC - MIDAMERICAN	KIMBER, ANNE	COLLEGE OF ENGINEERING	ELECTRICAL ENGINEERING & COMPUTER ENGR	005480-00001	Research	11/1/2005	10/31/2020	NOV. 2019	4002073
\$100,000	IOWA SOYBEAN ASSOCIATION	IN SUPPORT OF THE IOWA SOYBEAN RESEARCH CENTER	TYLKA, GREGORY L	AG EXPERIMENT STATION	IOWA SOYBEAN RESEARCH CTR	021649-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021649
\$96,191	IOWA DEPARTMENT OF PUBLIC HEALTH	MULTIPLE RISKS AND FAMILY WELLBEING: A POPULATION-BASED STUDY OF HOME VISITING ENROLLMENT, RETENTION, AND OUTCOMES	ROUSE, HEATHER L	COLLEGE OF HUMAN SCIENCES	HUMAN DEVELOPMENT & FAMILY STUDIES	020079-00001	Research	8/1/2018	9/30/2020	NOV. 2019	4782829
\$89,666	OHIO STATE UNIVERSITY	CENTER FOR EMERGENT MATERIALS	KAMINSKI, ADAM	COLLEGE OF LIBERAL ARTS & SCIENCES	PHYSICS & ASTRONOMY	013200-00001	Research	11/1/2014	10/31/2020	NOV. 2019	4042168
\$87,702	DESIGN MILL	SHIPBOARD DIMENSIONAL ANALYSIS TOOL PHASE 2 PROPOSAL	KRISHNAMURTHY, ADARSH	VP FOR RESEARCH	VIRTUAL REALITY APPLICATIONS CENTER	021746-00001	Research	6/13/2019	6/12/2020	NOV. 2019	021746
\$87,000	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	ACCEPTANCE AND COMMITMENT THERAPY FOR CUSTODIAL GRAND CHILDREN AND CUSTODIAL GRANDPARENTS	LEE, JEONGEUN	UNIVERSITY & COOPERATIVE EXTENSION	HUMAN DEVELOPMENT & FAMILY STUDIES	020737-00001	Public Service	9/1/2019	8/31/2020	NOV. 2019	4163032
\$85,707	DOT-FEDERAL AVIATION ADMINISTRATION	PROJECT 32-ROTORCRAFT WIRE STRIKE	EISENMANN, DAVID J	COLLEGE OF ENGINEERING	ENGINEERING RESEARCH INSTITUTE	021656-00001	Research	9/26/2019	9/25/2020	NOV. 2019	021656

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	(FAA)										
\$79,797	UNIVERSITY OF NEBRASKA LINCOLN	SOYBEAN GALL MIDGE: SURVEYING THE NORTH CENTRAL REGION, ADULT MONITORING AND HOST PLANT RESISTANCE	HODGSON, ERIN WHITNEE	AG EXPERIMENT STATION	ENTOMOLOGY	021731-00001	Research	10/1/2019	8/31/2020	NOV. 2019	021731
\$76,445	KANSAS STATE UNIVERSITY	EFFECT OF CULTURAL PRACTICES ON SOYBEAN SEED QUALITY: A REVIEW AND RESEARCH STUDIES	ARCHONTOULIS, SOTIRIOS	AG EXPERIMENT STATION	AGRONOMY	021710-00001	Research	10/1/2019	3/31/2021	NOV. 2019	021710
\$75,000	DEERE & COMPANY	VIRTUAL ENGINEERING CONTROL SYSTEMS, PHASE 3	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021644-00001	Research	9/1/2019	10/31/2020	NOV. 2019	021644
\$74,000	IOWA SOYBEAN ASSOCIATION	STACKING FOUR PLANT GENES TO GENERATE DURABLE AND ENHANCED SCN AND SDS RESISTANCES IN SOYBEAN	BHATTACHARYYA, MADAN KUMA	AG EXPERIMENT STATION	AGRONOMY	021735-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021735
\$72,000	DEERE & COMPANY	SPRAYER CHASSIS AND SUSPENSION MODELING, PHASE 2	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021687-00001	Research	11/1/2019	10/31/2020	NOV. 2019	021687
\$71,266	DSM NUTRITIONAL PRODUCTS	ANIMAL PRODUCT TRIAL - VALIDATION OF NOVEL GROWTH ASSESSING TECHNOLOGY BY ASSESSING THE CRUDE PROTEIN REQUIREMENT OF GROWING PIGS	GREINER, LAURA LEE	AG EXPERIMENT STATION	ANIMAL SCIENCE	021660-00001	Research	10/1/2019	5/31/2022	NOV. 2019	021660
\$70,174	ZOETIS	SWINE VETERINARY	HOLTKAMP,	COLLEGE OF	VET DIAGNOSTIC &	020697-00001	Instruction	5/1/2019	4/30/2022	NOV.	4007343

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		INTERNSHIP PROGRAM - ZOETIS	DERALD J	VETERINARY MEDICINE	PRODUCTION ANIMAL MED					2019	
\$69,538	SWINE HEALTH INFORMATION CENTER	CHARACTERIZATION OF STREPTOCOCCUS EQUI SUBSP. ZOOEPIDEMICUS STRAINS CAUSING HIGH PIG MORTALITY	RESENDE-DE-MACEDO, NUBIA	COLLEGE OF VETERINARY MEDICINE	VET DIAGNOSTIC & PRODUCTION ANIMAL MED	021691-00001	Research	11/15/2019	5/15/2020	NOV. 2019	021691
\$68,181	OHIO STATE UNIVERSITY	LANDSCAPE LEGACY AND URBAN AGRICULTURE: UNDERSTANDING THE IMPACT OF HEAVY METAL CONTAMINATION ON POLLINATOR HEALTH AND POLLINATION SERVICES	TOTH, AMY LYNN	AG EXPERIMENT STATION	ECOLOGY, EVOLUTION & ORG BIOLOGY	021631-00001	Research	9/1/2019	5/14/2020	NOV. 2019	021631
\$66,960	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	CLEANING AND DISINFECTION AT THE DECONTAMINATION LINE EDUCATIONAL TOOLS AND DEMONSTRATION	BICKETT-WEDDLE, DANIELLE A	COLLEGE OF VETERINARY MEDICINE	CTR FOR FOOD SECURITY & PUBLIC HEALTH	021714-00001	Public Service	11/13/2019	6/30/2020	NOV. 2019	021714
\$60,000	BASF CORPORATION	ESTIMATING THE EXPOSURE TO NEONICOTINOID RESIDUES IN POLLINATOR-ATTRACTIVE HABITAT ADJACENT TO CORN AND SOYBEAN FIELDS	O'NEAL, MATTHEW ELLIOTT	AG EXPERIMENT STATION	ENTOMOLOGY	021637-00001	Research	7/15/2019	7/15/2020	NOV. 2019	021637
\$60,000	ALL THINGS BUGS LLC	TECHNICAL EVALUATION AGREEMENT: PREPARATION OF	WEN, ZHIYOU	AG EXPERIMENT STATION	FOOD SCIENCE & HUMAN NUTRITION	021732-00001	Research	12/1/2019	7/31/2020	NOV. 2019	021732



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		THE REFINED PROTEIN PRODUCTS FROM INSECT MATERIALS									
\$56,868	BOEING COMPANY	ISU PARTNERSHIP WITH BOEING IN INDUSTRIAL ENGINEERING	MACKENZIE, CAMERON A	COLLEGE OF ENGINEERING	INDUSTRIAL & MANUFACTURING SYSTEMS ENGR	021674-00001	Research	9/10/2019	12/15/2019	NOV. 2019	021674
\$55,000	DEERE & COMPANY	GROUND SENSING TECHNOLOGY, PHASE 3	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021643-00001	Research	9/1/2019	10/31/2020	NOV. 2019	021643
\$50,899	IOWA DEPARTMENT OF NATURAL RESOURCES	DEVELOPING CAPTURE TECHNIQUES AND MONITORING THE MOVEMENT OF SANDHILL CRANES BREEDING IN IOWA	KLAVER, ROBERT W	AG EXPERIMENT STATION	NATURAL RESOURCE ECOLOGY & MGMT	021711-00001	Research	10/1/2019	12/1/2021	NOV. 2019	021711
\$47,711	VARIOUS ISUF DONORS-NONPROFIT	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021062-00001	Scholarships & Fellowships	6/1/2019	5/31/2020	NOV. 2019	
\$47,527	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300001	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	NATL LAB FOR AG & ENVIRONMENT	021601-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021601
\$45,000	UCHICAGO ARGONNE LLC- ARGONNE NATIONAL LABORATORY	A DATA-DRIVEN MULTI-TIMESCALE PREDICTIVE, PROACTIVE, AND RECOVERY OPTIMIZATION FRAMEWORK FOR SOLAR ENERGY INTEGRATED RESILIENT DISTRIBUTION GRID	WANG, ZHAOYU	COLLEGE OF ENGINEERING	ELECTRIC POWER RESEARCH CTR	020096-00001	Research	11/19/2018	11/13/2020	NOV. 2019	4046228

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\$44,526	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES	HONEYMAN, MARK S	AG EXPERIMENT STATION	ISU RESEARCH FARMS	021693-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021693
\$41,842	EDUCATION DEVELOPMENT CENTER INC	INQUIRY AND EQUITY: WHO GETS TO ASK QUESTIONS IN MATHEMATICS?	YOUNG, MICHAEL	COLLEGE OF LIBERAL ARTS & SCIENCES	MATHEMATICS	020301-00001	Research	10/1/2018	9/30/2020	NOV. 2019	4046182
\$41,000	UTAH STATE UNIVERSITY	AGRICULTURAL SAFETY EDUCATION INITIATIVE	SMALLEY, SCOTT W	AG EXPERIMENT STATION	AG EDUCATION & STUDIES	021733-00001	Academic Support	9/15/2019	9/14/2020	NOV. 2019	021733
\$40,000	UNIVERSITY OF CALIFORNIA- LAWRENCE BERKELEY NATIONAL LABORATORY	THE JOINT BIOENERGY INSTITUTE	SHANKS, BRENT H	COLLEGE OF ENGINEERING	CTR FOR BIORENEWABLE CHEMICALS	018654-00001	Research	3/9/2018	9/30/2022	NOV. 2019	4046204
\$38,751	PHOTOTHERMAL SPECTROSCOPY CORPORATION	OPTICAL PHOTOTHERMAL INFRARED (OPTIR) MICROSCOPE FOR IN-SITU CHARACTERIZATION OF CELLULAR METABOLISM AND CHEMICAL PROCESSES IN CELLS AND TISSUE	NIKOLAU, BASIL J	VP FOR RESEARCH	CTR FOR METABOLIC BIOLOGY	021663-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021663
\$38,001	ELECTRIC POWER RESEARCH INSTITUTE	CONTRIBUTION TO WHITE PAPER ON THE NEW GENERATION OF COORDINATED GENERATION AND TRANSMISSION PLANNING PROBLEMS	MCCALLEY, JAMES D	COLLEGE OF ENGINEERING	ELECTRIC POWER RESEARCH CTR	020063-00001	Research	10/15/2018	6/15/2020	NOV. 2019	4007225
\$35,475	NEWORMICS LLC	A LARGE-SCALE MICROFLUIDICS	MOCHEL, JONATHAN PAUL	COLLEGE OF VETERINARY	BIOMEDICAL SCIENCES	021706-00001	Research	6/1/2019	5/31/2020	NOV. 2019	021706

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		IMAGING PLATFORM FOR HIGH-THROUGHPUT TOXICITY TESTING USING CANINE INTESTINAL ORGANIDS	M	MEDICINE							
\$35,175	ANTECH USA	VALIDATION STUDY TO DETERMINE SENSITIVITY AND SPECIFICITY OF SERUM TEST FOR CANINE IBD	ALLENSPACH-JORN, KARIN	COLLEGE OF VETERINARY MEDICINE	VET CLINICAL SCIENCES	021709-00001	Research	1/1/2020	4/30/2020	NOV. 2019	021709
\$35,019	UNIVERSITY OF NORTHERN IOWA	REGIONAL STEM SCALE-UP PROGRAMMING SUPPORT FOR FY20	HIGGINS, CHADWICK CHARLES	UNIVERSITY & COOPERATIVE EXTENSION	VP EXTENSION & OUTREACH	021180-00001	Public Service	7/1/2019	6/30/2020	NOV. 2019	021180
\$34,892	UNIVERSITY OF TEXAS AUSTIN	ACHIEVING HIGHER LEVELS OF STANDARDIZED FACILITY DESIGN IN THE UPSTREAM, MIDSTREAM, AND MINING (UMM) COMMODITY MARKET	SHANE, JENNIFER	VP FOR RESEARCH	INST FOR TRANSPORTATION (INTRANS)	017371-00001	Research	5/1/2017	9/30/2020	NOV. 2019	4007755
\$34,500	MONSANTO COMPANY	SPATIAL AND TEMPORAL BASELINE SENSITIVITY ASSESSMENT OF COMMON WATERHEMP POPULATIONS TO KEY HERBICIDES IN IOWA CORN AND SOYBEAN FIELDS	JHA, PRASHANT	AG EXPERIMENT STATION	AGRONOMY	021744-00001	Research	10/1/2019	6/30/2021	NOV. 2019	021744
\$32,463	MICHIGAN STATE UNIVERSITY	A GENOME-LEVEL APPROACH TO BALANCING THE	YU, JIANMING	AG EXPERIMENT STATION	AGRONOMY	016569-00001	Research	8/1/2016	7/31/2021	NOV. 2019	4044104

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		VITAMIN CONTENT OF MAIZE GRAIN									
\$30,000	IOWA SOYBEAN ASSOCIATION	IMPROVING SOYBEAN IPM TACTICS IN IOWA	HODGSON, ERIN WHITNEE	UNIVERSITY & COOPERATIVE EXTENSION	ENTOMOLOGY	021677-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021677
\$30,000	ALLIANCE FOR SUSTAINABLE ENERGY LLC-NATIONAL RENEWABLE ENERGY LABORATORY	INTERCONNECTIONS SEAM STUDY FINAL SCENARIOS	MCCALLEY, JAMES D	COLLEGE OF ENGINEERING	ELECTRIC POWER RESEARCH CTR	021684-00001	Research	11/11/2019	3/31/2020	NOV. 2019	021684
\$30,000	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES	SERB, JEANNE M	VP FOR RESEARCH	BIOTECHNOLOGY	021708-00001	Public Service	8/12/2019	8/11/2020	NOV. 2019	021708
\$29,811	WATERSHED GEO	CLOSURETURF AND SOLAR PANELS UPLIFT RESEARCH PHASE VI	ZHENG, JUNXING	COLLEGE OF ENGINEERING	CIVIL, CONSTR & ENVIRONMENTAL ENGR	021728-00001	Research	12/1/2019	12/31/2020	NOV. 2019	021728
\$28,296	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300011	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021610-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021610
\$25,400	PRATT & WHITNEY - A DIVISION OF UNITED TECHNOLOGIES CORPORATION	ISU TASK 73	EISENMANN, DAVID J	COLLEGE OF ENGINEERING	CENTER FOR NON-DESTRUCT EVALUATION	021696-00001	Research	11/11/2019	1/31/2020	NOV. 2019	021696
\$24,000	DEERE & COMPANY	ISG PLANT AND WEED TEST STAND - BCRF GREEN-HOUSE OPERATION	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021701-00001	Research	11/1/2019	10/31/2020	NOV. 2019	021701
\$24,000	OHIO STATE UNIVERSITY	AG DATA CONSIDERATIONS	DARR, MATTHEW JOHN	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021729-00001	Research	10/1/2019	9/30/2020	NOV. 2019	021729

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		FOR TODAY'S US SOYBEAN PRODUCTION									
\$23,994	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	IDENTIFYING AND EVALUATING HIGH PERFORMING LETTUCE TYPES AND VARIETIES FOR IOWA HIGH TUNNEL GROWERS	NAIR, AJAY	AG EXPERIMENT STATION	HORTICULTURE	021635-00001	Research	9/29/2019	9/28/2021	NOV. 2019	021635
\$23,965	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	GROWING THE HOP INDUSTRY THROUGH EDUCATION TO IOWA CRAFT BREWERIES AND CONSUMERS	HARTSOOK, CHRISTA LYNN	UNIVERSITY & COOPERATIVE EXTENSION	VALUE ADD AG-EXTENSION	021651-00001	Research	9/29/2019	9/29/2021	NOV. 2019	021651
\$23,750	CLEMSON UNIVERSITY	PROJECT 2019-2020 MULTI YEAR DEVELOPMENT AND DELIVERY AEROSPACE CAPSTONE PROJECT WITH CLEMSON UNIVERSITY	GRAGER, TRAVIS N	COLLEGE OF ENGINEERING	AEROSPACE ENGINEERING	021265-00001	Instruction	7/1/2019	6/30/2020	NOV. 2019	021265
\$23,623	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	DEVELOPING FERTILIZATION PRACTICES FOR CONTAINERIZED IOWA NATIVE PRAIRIE AND WOODLAND PLANTS	CURREY, CHRISTOPHER JON	AG EXPERIMENT STATION	HORTICULTURE	021633-00001	Research	9/29/2019	9/29/2021	NOV. 2019	021633
\$23,261	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	DETERMINING APPROPRIATE ORGANIC FERTILIZER APPLICATION STRATEGIES FOR PRODUCING SEEDLING PLUGS	CURREY, CHRISTOPHER JON	AG EXPERIMENT STATION	HORTICULTURE	021632-00001	Research	9/29/2019	9/29/2021	NOV. 2019	021632

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		AND FINISHED CONTAINERIZED CULINARY HERBS									
\$22,873	SPACE TELESCOPE SCIENCE INSTITUTE	A CHALLENGE TO DSPH FORMATION MODELS: ARE THE MOST ISOLATED LOCAL GROUP DSPH GALAXIES TRULY OLD?	MARENGO, MASSIMO	COLLEGE OF LIBERAL ARTS & SCIENCES	PHYSICS & ASTRONOMY	020198-00001	Research	1/1/2019	12/31/2021	NOV. 2019	4046180
\$20,737	ED-US DEPARTMENT OF EDUCATION	PELL GRANT, FY19	JOHNSON, ROBERTA L	VICE PRESIDENT FOR STUDENT AFFAIRS	STUDENT FINANCIAL AID	019421-00001	Student Financial Aid	7/1/2018	6/30/2019	NOV. 2019	4325793
\$20,684	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	USING LIFE CYCLE ASSESSMENT FOR EVALUATION AND RECOMMENDATION OF SUSTAINABLE PRACTICES IN THE GRAPE AND WINE INDUSTRY	SCHRADER, JAMES	UNIVERSITY & COOPERATIVE EXTENSION	FOOD SCIENCE & HUMAN NUTRITION	021650-00001	Public Service	9/29/2019	9/29/2021	NOV. 2019	021650
\$20,119	IOWA DEPARTMENT OF PUBLIC HEALTH	EARLY CHILDHOOD HOME VISITING AND PUBLIC HEALTH: A RESEARCH, PRACTICE, AND POLICY COLLABORATION YEAR FOUR	ROUSE, HEATHER L	COLLEGE OF HUMAN SCIENCES	HUMAN DEVELOPMENT & FAMILY STUDIES	019938-00001	Research	10/1/2018	9/30/2020	NOV. 2019	4782827
\$20,088	NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION	PASSIVELY-CODED MINIATURIZED WIDEBAND MICROWAVE SENSORS FOR MATERIALS CHARACTERIZATION AND STRUCTURAL HEALTH MONITORING (SHM)	ZOUGH, REZA	COLLEGE OF ENGINEERING	ELECTRICAL ENGINEERING & COMPUTER ENGR	021736-00001	Scholarships & Fellowships	11/13/2019	7/31/2020	NOV. 2019	021736

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\$20,000	PRATT & WHITNEY - A DIVISION OF UNITED TECHNOLOGIES CORPORATION	TASK 72: ANALYSIS TOOL FOR ULTRASONIC INSPECTION DATA	CHIOU, CHIEN-PING	COLLEGE OF ENGINEERING	CENTER FOR NON-DESTRUCT EVALUATION	021394-00001	Research	9/15/2019	1/31/2020	NOV. 2019	021394
\$19,315	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300013	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021606-00001	Public Service	10/1/2019	6/30/2020	NOV. 2019	021606
\$19,008	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300009	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021609-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021609
\$18,500	ENVIRONMENTAL DEFENSE FUND	COORDINATED SITE NETWORK FOR STUDYING THE IMPACTS OF 4R NUTRIENT MANAGEMENT ON CROP PRODUCTION AND NUTRIENT LOSS	ABENDROTH, LORI	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	018903-00001	Research	4/1/2018	9/30/2020	NOV. 2019	4004688
\$17,500	METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	EVALUATION OF REVOLVING ALGAL BIOFILM (RAB) SYSTEM FOR TREATING MAIN STREAM WASTEWATER IN O'BRIEN FACILITY	WEN, ZHIYOU	AG EXPERIMENT STATION	FOOD SCIENCE & HUMAN NUTRITION	016704-00001	Research	1/1/2017	12/31/2019	NOV. 2019	4004552
\$17,436	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP	DEVELOPMENT OF A SIGNATURE IOWA WINE: IDENTIFICATION OF CONSUMER	MACDONALD, RUTH SEAMAN	AG EXPERIMENT STATION	FOOD SCIENCE & HUMAN NUTRITION	021634-00001	Research	9/29/2019	9/29/2020	NOV. 2019	021634

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		PREFERRED CULTIVARS AND STYLES									
\$17,365	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300006	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021608-00001	Public Service	10/1/2019	12/31/2019	NOV. 2019	021608
\$15,730	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300004	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021607-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021607
\$15,067	SWINE HEALTH INFORMATION CENTER	UVC STANDARDS AND BEST PRACTICES FOR THE SWINE INDUSTRY	HOLTKAMP, DERALD J	COLLEGE OF VETERINARY MEDICINE	VET DIAGNOSTIC & PRODUCTION ANIMAL MED	021704-00001	Public Service	11/15/2019	5/15/2020	NOV. 2019	021704
\$15,000	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300010	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021602-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021602
\$13,191	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES	WANNEMUEHLER, MICHAEL	COLLEGE OF VETERINARY MEDICINE	VETERINARY MICROBIOLOGY & PREV MEDICINE	021654-00001	Public Service	10/1/2019	12/31/2019	NOV. 2019	021654
\$12,165	VARIOUS ISUF DONORS- NONPROFIT	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021065-00001	Research	6/1/2019	5/31/2020	NOV. 2019	
\$12,000	GROSS-WEN TECHNOLOGIES LLC	FIELD TRIAL PROPOSAL TO GWT FOR CONTINUING ALGAE TURFGRASS RESEARCH	THOMS, ADAM WILLIAM	AG EXPERIMENT STATION	HORTICULTURE	021638-00001	Research	10/25/2019	10/24/2020	NOV. 2019	021638



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\$10,899	USDA- AGRICULTURAL RESEARCH SERVICES (ARS)	ACQUISITION OF GOODS AND SERVICES, AGREEMENT NUMBER 5850300023	LAMKEY, KENDALL RAYE	AG EXPERIMENT STATION	AGRONOMY	021604-00001	Public Service	10/1/2019	9/30/2020	NOV. 2019	021604
\$10,000	ASSOCIATION OF PUBLIC AND LAND-GRANT UNIVERSITIES	DEVELOPING THE NATIONAL BEHAVIORAL HEALTH EXTENSION NETWORK (NBH E- NET)	SPOTH, RICHARD LEE	COLLEGE OF HUMAN SCIENCES	HUMAN DEVELOPMENT & FAMILY STUDIES	021673-00001	Public Service	11/1/2019	10/31/2020	NOV. 2019	021673
\$8,431	IOWA ASSOCIATION FOR THE EDUCATION OF YOUNG CHILDREN	2020 IOWA FARM TO SCHOOL CONFERENCE	CHASE, CRAIG ALAN	UNIVERSITY & COOPERATIVE EXTENSION	EXTENSION TO AG- EXTENSION	021723-00001	Public Service	7/22/2019	6/30/2020	NOV. 2019	021723
\$7,500	BAYER CROPSCIENCE	BAYER FIELD TRIAL SUB-AGREEMENT 139	JHA, PRASHANT	AG EXPERIMENT STATION	AGRONOMY	021639-00001	Research	4/1/2019	12/1/2019	NOV. 2019	021639
\$7,500	BAYER CROPSCIENCE	BAYER FIELD TRIAL SUB-AGREEMENT 138	JHA, PRASHANT	AG EXPERIMENT STATION	AGRONOMY	021641-00001	Research	4/1/2019	12/1/2019	NOV. 2019	021641
\$6,300	BASF CORPORATION	FIELD TRIAL	MUELLER, DAREN SHANE	UNIVERSITY & COOPERATIVE EXTENSION	PLANT PATHOLOGY	021698-00001	Research	5/1/2019	4/30/2020	NOV. 2019	
\$5,000	BAYER CROPSCIENCE	BAYER FIELD TRIAL SUB-AGREEMENT 137	JHA, PRASHANT	AG EXPERIMENT STATION	AGRONOMY	021640-00001	Research	4/1/2019	12/1/2019	NOV. 2019	021640
\$5,000	TEXAS A&M UNIVERSITY- TEXAS AGRILIFE RESEARCH	IDENTIFYING LOCI FOR PHOTOPERIOD SENSITIVE FLOWERING; A CRITICAL NEED FOR IMPROVING HYBRIDS COMPANIES SELL TO TEXAS PRODUCERS	YU, JIANMING	AG EXPERIMENT STATION	AGRONOMY	021672-00001	Research	1/1/2019	12/31/2019	NOV. 2019	021672

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\$5,000	US GRAINS COUNCIL	TUNISIAN TRAINING CENTER FOR FEED MANUFACTURING	MAIER, DIRK EBERHARD	AG EXPERIMENT STATION	AG & BIOSYSTEMS ENGINEERING	021721-00001	Instruction	10/4/2019	12/31/2019	NOV. 2019	021721
\$2,706	HEALTHY HARVEST OF NORTH IOWA	HEALTHY HARVEST OF NORTH IOWA SPECIALTY BLOCK GRANT	CHASE, CRAIG ALAN	UNIVERSITY & COOPERATIVE EXTENSION	EXTENSION TO AG-EXTENSION	021664-00001	Public Service	9/29/2019	3/31/2022	NOV. 2019	021664
\$2,500	SEAGATE TECHNOLOGY	CMI AFFILIATE PROGRAM MEMBERSHIP	HAASE, MARK CHRISTOPHER	AMES LABORATORY	AMES LABORATORY	021712-00001	Research	3/1/2019	6/30/2020	NOV. 2019	
\$2,250	VARIOUS ISUF DONORS-NONPROFIT	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021064-00001	Academic Support	6/1/2019	5/31/2020	NOV. 2019	
\$1,950	LEE COUNTY CONSERVATION BOARD	LOCAL SUPPORT FOR IOWA AMERICORPS ENVIRONMENTAL EDUCATION PROGRAM, 2018-19	GOOD, TILAINÉ BELL	UNIVERSITY & COOPERATIVE EXTENSION	EXTENSION TO YOUTH & 4H	021685-00001	Public Service	9/1/2019	8/31/2020	NOV. 2019	021685
\$1,876	ED-US DEPARTMENT OF EDUCATION	TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION (TEACH) GRANT, FY20	JOHNSON, ROBERTA L	VICE PRESIDENT FOR STUDENT AFFAIRS	STUDENT FINANCIAL AID	021579-00001	Scholarships & Fellowships	7/1/2019	6/30/2020	NOV. 2019	
\$1,710	VARIOUS ISUF DONORS-INDIVIDUAL	IOWA STATE UNIVERSITY FOUNDATION DONATIONS	WINTERSTEEN, WENDY	PRESIDENT	PRESIDENT	021055-00001	Research	6/1/2019	5/31/2020	NOV. 2019	
\$720	AGRITHORITY LLC	FIELD TRIAL	NAVI, SHRISHAIL SHARANAPP	AG EXPERIMENT STATION	PLANT PATHOLOGY	021682-00001	Research	4/1/2019	3/30/2020	NOV. 2019	