

New Research Grants & Contracts

November 2024

Principal Investigator (PI)	Co-Investigators	Award	Sponsor	Total Funds
James Acton – Associate Professor, Pediatrics	——	Cystic Fibrosis Foundation Center FY25	Cystic Fibrosis Foundation	\$93,390
Yaw Adu-Gyamfi – Associate Professor, Civil and Environmental Engineering	Henry Brown – Research Engineer, Civil and Environmental Engineering Bill Buttlar – Glen Barton Chair in Flexible Pavement Technology, Civil and Environmental Engineering	Establishment of a public-private transportation data exchange center	Missouri Department of Transportation	\$919,997
Yaw Adu-Gyamfi – Associate Professor, Civil and Environmental Engineering	Praveen Edara – Chair and Professor, Civil and Environmental Engineering Carlos Sun – Professor, Civil and Environmental Engineering	Titan-Interactive web-based platform for visual analytics of transportation data, phase 3	Missouri Department of Transportation	\$778,640
Noel Aloysius – Assistant Professor, Biological Engineering and Natural Resources	——	Missouri River basin water resource management 2024	USDA Agricultural Resource Service	\$1,012,500
W. David Arnold – Executive Director, NextGen Precision Health initiative; Professor, Physical Medicine and Rehabilitation, Neurology, Medical Pharmacology and Physiology	——	A phase 1b/2a double blind, placebo controlled study to evaluate the safety, tolerability, pharmacodynamics, and efficacy of CNP-106 in subjects ages 18–75 with generalized myasthenia gravis.	COUR Pharmaceuticals	\$34,172
Christopher Barnett – Director, Center for Applied Research and Engagement Systems (CARES)	——	Maintenance of the Oklahoma Pre-ETS System	U.S. Department of Education	\$32,680

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Jaime Barros-Rios – Assistant Professor, Plant Molecular Biology	—	Engineering plants and algae as dye-free alternatives to fossil-based textiles	Research Corporation for Science Advancement	\$66,000
Thomas Bonnot – Assistant Research Professor, Natural Resources	—	LiDAR applications in priority geographies phase 2	Missouri Department of Conservation	\$84,817
Jo Britt-Rankin – Extension Professor, Health Sciences	Kimberly Keller – Associate Extension Professor, Health Sciences Leslie Speller-Henderson – Associate Extension Professor, Health Sciences	Family Nutrition Education Program: SNAP-Ed 2025	U.S. Department of Agriculture	\$11,312,418
John Brockman – Associate Professor, Chemistry	—	Disruptive manufacturing of oxide dispersion strengthened steels for nuclear applications	U.S. Department of Energy	\$250,000
Kevin Brown – Associate Professor, Digital Media and Performance Studies	—	Spring theatre production	Missouri Arts Council	\$30,185
Justin Calhoun – Assistant Extension Professor; State Extension Soil and Cropping Systems Specialist	—	2024 POLY4 rate trial for corn in the Missouri Bootheel (year 1 of 2)	AngloAmerican Woodsmith Ltd.	\$13,000
Justin Calhoun – Assistant Extension Professor; State Extension Soil and Cropping Systems Specialist	—	2024 POLY4 rate trial for soybean in the Missouri Bootheel (year 1 of 2)	AngloAmerican Woodsmith Ltd.	\$13,000

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Steven Carr – Associate Professor, Neurological Surgery	——	Chronic subdural hematoma treatment with embolization vs surgery study (CHESS)	National Institutes of Health	\$10,963
Albert Chan – Associate Professor; Cardiology	——	V-INCLUSION: Evaluating inclisiran as a solution to improve LDL-C management and close care gaps in an inclusive ASCVD and ASCVD risk-equivalent population (VICTORION-INCLUSION)	Novartis Pharmaceuticals Corp.	\$39,825
Sawiyyah Chanay – Extension Community Health Outreach Specialist and Education Director	Sarah Davis – Adjunct Assistant Extension Professor, Public Health Kristin Miller – Associate Extension Professor; Assistant Director, Extension Health and Human Services Kelsey Weitzel – Associate Extension Professor, Physical Therapy	Show-Me Vax: Building capacity for Extension to integrate vaccine education into programming	Extension Foundation	\$124,745
James Cook – William C. and Kathryn E. Allen Distinguished Chair in Orthopaedic Surgery	——	Travel to AONA Trauma Basic Principles of Fracture Management course: Phillips, Horner, Bangura	Medical Device Business Services Inc.	\$3,750
Dima Dandachi – Associate Professor, Medicine	——	Midwest developmental center for AIDS research (D-CFAR)	NIH National Institute of Allergy and Infectious Diseases	\$157,528
Paul de Figueiredo – NextGen Precision Health Endowed Professor, Molecular Microbiology and Immunology	——	SPHERICAL: Scientific platform for high efficacy antigen design via robust integration of computational experiments, AI and protein modeling	U.S. Department of Health and Human Services	\$609,523

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Jonathan Dyer – Professor, Dermatology	—	Evaluation of squamous cell carcinoma in recessive dystrophic epidermolysis bullosa: clinical, molecular and pathologic characteristics and outcomes	Cincinnati Children's Hospital Research Foundation	\$5,837
Deborah Finke – Professor; Plant Science and Technology	Robert Pierce – Associate Extension Professor, Fisheries and Wildlife' Timothy Reinbott – Director, Missouri Agricultural Experiment Station Communication and Construction Services	Utilizing technology and conservation practices to produce more economically and environmentally sustainable soybeans	United Soybean Board	\$179,114
Chase Floyd – Assistant Research Professor; State Extension Crop Protection Specialist	—	Comparison of two spotted spider mite (<i>Tetranychus urticae</i>) infestations on common Missouri cotton varieties	Cotton Inc.	\$18,000
Chase Floyd – Assistant Research Professor; State Extension Crop Protection Specialist	—	Economic evaluation of cotton Bt technology traits in Missouri cotton	Cotton Inc.	\$10,000
Chase Floyd – Assistant Research Professor; State Extension Crop Protection Specialist	—	Comparison of conventional pesticide application and inverted lay-by drop nozzles for control of damaging pests in mid-South cotton	Cotton Inc.	\$5,000
Teresa Foulkes – Director, Missouri AfterSchool Network	—	With youth, for youth	Youthprise	\$95,000

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Felix Fritschi – C. Alice Donaldson Professor, Plant Science and Technology	Jaime Barros-Rios – Assistant Professor, Plant Molecular Biology	Root system contributions to sustainable soybean production	United Soybean Board	\$297,459
Felix Fritschi – C. Alice Donaldson Professor, Plant Science and Technology	Morgan Davis – Assistant Professor, Natural Resources	Characterizing and understanding relationships between root systems and soil gas flux in soybean production	United Soybean Board	\$166,406
Karen Funkenbusch – Extension Instructor, Occupational Therapy	Debora Bell – Chair and Professor, Psychological Sciences Kathy Dothage – Extension Professor, Social Work Amy Patillo – Extension Field Specialist, Labor and Workforce Development Matthew Pezold – Extension Field Specialist, Labor and Workforce Development Elizabeth Picking – Extension Field Specialist, Livestock	North Central Farm and Ranch Stress Assistance Center 2024-25	USDA National Institute of Food and Agriculture	\$90,000
Madhwa Galgali – Graduate Research Assistant, Psychological Sciences	Jamie Arndt – Senior Associate Dean, College of Arts and Science; Professor, Psychological Sciences	Intuitive and analytic management of mortality awareness: The role of normative cultural belief systems	International Society for the Science of Existential Psychology	\$15,000
Ashley Helle – Assistant Research Professor, Psychological Sciences	—	UMKC ATTC Network coordinating office	Substance Abuse and Mental Health Services Administration	\$111,349

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Lisa Higgins – Director, Missouri Folk Arts Program	—	Missouri's 40th annual traditional arts apprenticeship program	National Endowment for the Arts	\$40,000
Lisa Higgins – Director, Missouri Folk Arts Program	—	Missouri Arts Council federal partnership	Missouri Arts Council	\$30,000
Mark Horvit – Professor, Journalism	—	Missouri School of Journalism statehouse network reporting project	Laura and John Arnold Foundation	\$268,046
Jennifer Hulett – Assistant Professor, Nursing	Clayton Clark – Assistant Teaching Professor, Nursing Dena Higbee – Executive Director, Shelden Clinical Simulation Center Deidre Wipke-Tevis – Associate Professor, Nursing	Advance nursing education-sexual assault nurse examiner training program (ANE-SANE)	Health Resources and Services Administration	\$374,811
Tzyh-Chang Hwang – Professor, Medical Pharmacology and Physiology	—	Structure/function mechanism of CFTR correctors	Cystic Fibrosis Foundation	\$336,000
Marc Johnson – Professor, Molecular Microbiology and Immunology	—	The lungfish project	Inkfish LLC	\$10,350,419
Sarah Kennedy – Extension Field Specialist, Community Development	—	Activating civic leaders to address the childcare crisis in the North-Central region	USDA National Institute of Food and Agriculture	\$25,000
Margaret Lange-Osborn – Assistant Professor, Molecular Microbiology and Immunology	—	Aptamer tools for discrimination of HIV-1 capsid assembly states	NIH National Institute of Allergy and Infectious Diseases	\$115,849

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Amy Lannin – Associate Professor, Learning, Teaching and Curriculum; Director, Campus Writing Program	——	Show Me Literacies Collaborative (year 5)	Missouri Department of Elementary and Secondary Education	\$740,576
Teresa Lever – Professor, Otolaryngology	——	Phenotyping dysphagia in mouse models of Batten disease	Washington University	\$4,300
Teng Teeh Lim – Extension Professor, Agriculture Systems Management and Bioengineering	Corrine Bromfield – Assistant Extension Professor, Animal Sciences	Swine industry depopulation workshop and demonstration at Missouri	National Pork Board	\$125,000
Feng Lin – Assistant Professor, Plant Science and Technology	——	Development of functional ultra-high stearic acid soybean germplasms	Mid-South Soybean Board	\$30,000
Feng Lin – Assistant Professor, Plant Science and Technology	——	Leveraging artificial intelligence for climate-smart soybean farming in sustainable agriculture: research and educational initiatives	USDA National Institute of Food and Agriculture	\$100,006
Randie Little – Research Professor, Pathology and Anatomical Sciences	——	Tosoh contract research agreement – work order 1	Tosoh Bioscience	\$42,181
Melissa Maras – Research Consultant, Assessment Resource Center	——	Building statewide capacity for school mental health in Missouri: Project AWARE	Missouri Department of Elementary and Secondary Education	\$125,000
Joan Masters – Senior Director, Partners in Prevention	——	NDi project partnership	Missouri Department of Mental Health	\$10,000

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Joan Masters – Senior Director, Partners in Prevention	—	Prevention: reduce binge drinking – amendment	Missouri Department of Mental Health	\$163,943
Marc McKee – Managing Editor, The Missouri Review	—	The Missouri Review: Literature in print, digital and audio	Missouri Arts Council	\$23,046
Marc McKee – Managing Editor, The Missouri Review	—	The Missouri Review: Access to prize-winning authors	City of Columbia, Missouri	\$4,885
Mary Miller – Associate Professor, Psychiatry	—	Evaluating telehealth delivery of brief alcohol screening and intervention for college students	NIH National Institute on Alcohol Abuse and Alcoholism	\$682,701
Susan Moore – Associate Clinical Professor, Veterinary Pathobiology	—	Rabies serology proficiency testing program	Centers for Disease Control and Prevention	\$47,826
Abu Mosa – Associate Professor, Biomedical Informatics	—	Methods supplement to support innovative research on AI and large language models in patient-centered CER	Patient-Centered Outcomes Research Institute	\$2,500
Kathryn Moss – Assistant Professor, Physical Medicine and Rehabilitation	—	Function and regulation of PMP22 in CM-T1A and HNPP	NIH National Institute of Neurological Disorders and Stroke	\$704,898
Clayton Nuelle – Assistant Professor, Orthopaedic Surgery	Will Bezold – Bioengineering Research Engineer, Thompson Laboratory for Regenerative Orthopaedics James Cook – William C. and Kathryn E. Allen Distinguished Chair in Orthopaedic Surgery	Biomechanical evaluation through the knee flexion arc of transtibial posterior horn meniscus root repair with knotless adjustable suture anchor-based meniscal root repair	Arthrex	\$31,133

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Marco Pantoja – Assistant Extension Professor; Co-Director, Center for Economic and Financial Management	—	UME VITA taxpayer service program FY25	Internal Revenue Service	\$199,274
Carol Reinero – Professor, Veterinary Internal Medicine	Aida Vientós-Plotts – Assistant Professor, Small Animal Internal Medicine	Feline aerodigestive disorders: Documenting a pathologic link between respiration and swallow in cats presenting with respiratory tract signs	EveryCat Health Foundation	\$50,000
Christopher Sampson – Professor, Emergency Medicine	—	Access MeMed BV™ assay clinical study collection protocol – infectious adult and pediatric cohorts	Beckman Coulter	\$9,000
Matt Sanford – Executive Director, MU Research Reactor (MURR)	Mark Beary – Associate Director, Innovative Development and Translation, MURR John Brockman – Associate Professor, Chemistry James Gann – Former Associate Director, MURR Business Development Gayla Neumeyer – Administrative Consultant, MURR	Next-generation University of Missouri research reactor – radioisotope processing equipment	U.S. Department of Commerce	\$4,000,000
Joseph Santin – Assistant Professor, Biological Sciences	—	2024 Beverly Petterson Bishop Award for excellence in neuroscience	American Physiological Society	\$20,000
Andrew Scaboo – Assistant Professor, Plant Science and Technology	—	Discovering and deploying genetic solutions across maturity groups for durable resistance to multiple nematodes	United Soybean Board	\$50,000

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Tara Selly – Assistant Research Professor, Geological Sciences	——	Connecting the paleontological pieces: An examination of small carbonaceous fossils from the Deadwood Formation, South Dakota	American Chemical Society	\$125,000
Tyler Severance – Assistant Professor, Pediatrics	——	Adapting flow cytometry methods for early detection of acute hematologic malignancies in Kenya including the improvement of sample flow processes and technical training of personnel	National Institutes of Health	\$73,020
Minviluz (Bing) Stacey – Assistant Research Professor, Plant Science and Technology	Ruthie Angelovici – Associate Professor, Biological Sciences Andrew Scaboo – Assistant Professor, Plant Science and Technology	Towards the development of “ultra” high-protein soybean with improved amino acid profile	United Soybean Board	\$130,609
Joshua Stilley – Associate Professor, Emergency Medicine	——	Missouri rural emergency services collaborative for underserved education EMS training program (MO-RESCUE) 2024	Substance Abuse and Mental Health Services Administration	\$399,999
John Tanner – Professor, Chemistry and Biochemistry	Kent Gates – Schlundt Professor of Chemistry	Investigating the proline cycle as a potential cancer therapy target	NIH National Institute of General Medical Sciences	\$2,127,347
Bongkosh (Jeab) Vardhanabhuti – Associate Professor, Food Science	——	Mapping and improving functional properties of ProCream for clean-label applications	Dairy Management Inc.	\$225,811
Russ Waitman – Professor, Biomedical Informatics, Biostatistics and Medical Epidemiology	Abu Mosa – Associate Professor, Biomedical Informatics	Enhance infrastructure to support efficient and effective development and execution of PCORnet® studies	Patient-Centered Outcomes Research Institute	\$500,000

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Robert Wells – Director, University Concert Series	—	Office of Cultural Affairs grant for 2024-25 season	City of Columbia, Missouri	\$6,830
Patrick Westhoff – Curators' Distinguished Professor, Applied Social Sciences; Director, Food and Agricultural Policy Research Institute	Julian Binfield – Director, International Programs, Food and Agricultural Policy Research Institute Wyatt Thompson – Professor, Food and Agricultural Policy Research Institute	Agricultural policy and market analysis 2024-25	U.S. Department of Agriculture	\$2,023,000
Bradley Wilson – Assistant Research Professor and State Extension Specialist, Cotton Agronomics	—	Determining impacts of root knot nematode-resistant cultivars compared to chemical management of nematodes in Missouri soils	Cotton Inc.	\$18,000
Bradley Wilson – Assistant Research Professor and State Extension Specialist, Cotton Agronomics	—	Evaluation of foliar nutrient and fungicide products on stressed cotton seedlings in adverse environmental conditions	Cotton Inc.	\$13,000
Bradley Wilson – Assistant Research Professor and State Extension Specialist, Cotton Agronomics	—	Investigation of “crazy cotton” observed in mid-South cotton production	Cotton Inc.	\$11,250
Yizhi Xiang – Associate Professor, Chemical Engineering	—	Collaborative research: rational design of Ni/Ga intermetallic compounds for efficient light alkanes conversion through ammonia reforming	NSF Directorate for Engineering	\$238,464
Haojing Yan – Professor, Physics and Astronomy	—	DARK-SKY: Constrain zodiacal light and diffuse extragalactic background light	NASA Goddard Space Foundation	\$31,947

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Bing Yang – Curators' Distinguished Professor, Plant Science and Technology	—	BLB rice III – Africa	Bill and Melinda Gates Foundation	\$26,101
Laine Young-Walker – Robert J. and Betty Douglas Distinguished Chair in Psychiatry	—	Infant and early childhood mental health initiative	Missouri Department of Elementary and Secondary Education	\$1,999,099
Laine Young-Walker – Robert J. and Betty Douglas Distinguished Chair in Psychiatry	—	Center for excellence (CFE) training for home visitors	Missouri Department of Elementary and Secondary Education	\$14,081
Laine Young-Walker – Robert J. and Betty Douglas Distinguished Chair in Psychiatry	—	Parent advisory council and maternal substance use and trauma training, Oct. 2024 to July 2025	Missouri Department of Elementary and Secondary Education	\$150,756
Iris Zachary – Missouri Cancer Registry and Research Center Director; Associate Research Professor	—	Missouri Cancer Registry data modernization 2024-25	Centers for Disease Control and Prevention	\$152,000
Angie Zapata – Associate Professor, Learning, Teaching and Curriculum	Candice Kuby – Associate Provost, Faculty Affairs; Professor, Learning, Teaching and Curriculum	Missouri Learning and Literacies Center (part of the Show Me Literacies Collaborative): Supporting family, community and emergent literacies from birth to grade 3 (year 5)	Missouri Department of Elementary and Secondary Education	\$1,015,744