



WICHITA STATE
UNIVERSITY
OFFICE OF RESEARCH

INSIDE RESEARCH & Funding Opportunities

News, Events and Resources for the WSU Research Community

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January 21, 2022

Congratulations to those who received grants in December! Please help the WSU community stay informed by forwarding any notices of funding opportunities and/or training sessions to research@wichita.edu for inclusion in the next newsletter. Good luck to all of you in your research efforts over the next month.

Coleen Pugh, Vice Provost for Research

AWARDS

SMART FACTORY PO

PI/Department: Brian Brown, NIAR

Sponsor: Deloitte Services, LLP

Amount: \$150,000

VIZLING APP

PI/Department: Darren DeFrain, English

Sponsor: State of Kansas – URCA

Amount: \$4,500

221830SH - KMUW VIA WICHITA STATE UNIVERSITY FOUNDATION

PI/Department: Jessica Hanzlicek-Treadwell, KMUW

Sponsor: Humanities Kansas

Amount: \$3,588

FLOATER ARM MACHINE TORSION TUBE WELDMENT & MOUNT

PI/Department: Andrew Jonas, NIAR-Shop

Sponsor: Spirit Aerosystems INC

Amount: \$2,050

APPENDIX I IN-SITU X-RAY AND THERMAL MONITORING OF THE LASER-POWDER BED FUSION PROCESS: DETERMINING FUSION SIGNATURES

PI/Department: Leonard Miller, Aerospace Engineering

Sponsor: Natl Aeronautics & Space Admn

Amount: \$90,000

TRIO STUDENT SUPPORT SERVICES PROJECT

PI/Department: Linda Rhone, ED - Student Support Services

Sponsor: Department of Education - US

Amount: \$494,929

MEMORANDUM OF UNDERSTANDING BETWEEN KTEC HOLDINGS, INC. AND WICHITA STATE UNIVERSITY (ULTRASONIC FIBER GUIDANCE)

PI/Department: Richard Sack, Engineering Technology

Co-PI/Department: Ramazan Asmatulu, Mechanical Engineering | Nils Hakansson,
Biomedical Engineering

Sponsor: Kansas Department of Commerce

Amount: \$23,000

BACKPACK PARAMOTOR SYSTEM

PI/Department: Bhisham Sharma, Aerospace Engineering

Sponsor: D'Angelo Technologies, LLC / Air Force Research Laboratory

Amount: \$15,401

CUBE-SAT SPACE FLIGHT TEST OF A NEUTRINO DETECTOR

PI/Department: Nick Solomey, Physics

Co-PI/Department: Atri Dutta, Aerospace Engineering | Hyuck Kwon, Electrical & Computer Engr | Holger Meyer, Mathematics & Statistics & Physics

Sponsor: Natl Aeronautics & Space Admn

Amount: \$1,099,959

2021-2022 MADE MEN COMMUNITY HEALTH WORKER EDUCATION ACTIVITIES

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Made Men, Inc.

Amount: \$18,750

CORE SIPP - COMMUNICATIONS CAMPAIGN

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Centers for Disease Control

Amount: \$20,000

KHFI EVALUATION

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: The Food Trust

Amount: \$21,000

KSFHP HEALTHY DIET PROJECT (AMENDMENT 1)

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Health Resources & Services Admin

Amount: \$91,422

KSFHP TRAININGS - MBTI AND MORE

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Health Resources & Services Admin

Amount: \$13,500

MEETING FACILITATION

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Unified Government of Wyandotte County

Amount: \$6,900

MISSION REFRESH & PLANNING CONVERSATION

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Hutchinson's Historic Fox Theatre

Amount: \$2,814

STATE ESSENTIALS FOR CHILDHOOD: IMPLEMENTATION OF STRATEGIES AND APPROACHES FOR CHILD ABUSE AND NEGLECT PREVENTION

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Centers for Disease Control

Amount: \$92,000

SYNDROMIC SURVEILLANCE - ESSENCE TRAINING, VIDEO TUTORIALS AND USER MANUAL DEVELOPMENT

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Dept of Health and Human Services

Amount: \$47,205

TECHNICAL ASSISTANCE FOR OVERDOSE DATA TO ACTION (OD2A) SUBRECIPIENTS

PI/Department: Scott Wituk, Community Engagement Institute

Sponsor: Dept of Health & Environment - Kansas / Centers for Disease Control

Amount: \$38,610

DEVELOP CHEMICAL CROSS-LINKERS TO SELECTIVELY LABEL MONMETHYLATED LYSINE FOR THE STUDY OF POST-TRANSLATIONAL MODIFICATION-SPECIFIC LOCAL INTERACTOMES

PI/Department: Haifan Wu, Chemistry

Sponsor: State of Kansas – URCA

Amount: \$4,500

MENTORING ENGINEERING FACULTY TO PROFESSIONAL IMPACT (EFIC)

PI/Department: Yimesker Yihun, Mechanical Engineering

Co-PI/Department: Yang-Seon Kim, Mechanical Engineering | Rajeev Nair, Mechanical Engineering | Wei Wei, Mechanical Engineering | Tewodros Zewde, Electrical & Computer Engr

Sponsor: Arizona State University

Amount: \$100,000

FUNDING OPPORTUNITIES

Focused Funding Opportunities

For access to [WSU's Pivot](#) account to search for funding opportunities, please sign up and affiliate with Wichita State University using your WSU email address. To request assistance with a customized searching please contact funding@wichita.edu. If any of the following opportunities are of interest to you, please email proposals@wichita.edu as soon as possible so that a grant specialist may be assigned to assist. The Office of Research has updated its website with more information about the deadlines for receipt of proposals. While mandatory forms must be finalized well in advance of the funder deadline, you may continue to focus on your proposal narrative until closer to the deadline. Please visit [Pre-Award Services](#) to find out more.

*****LIMITED*** Funding Agency: Christopher & Dana Reeve Foundation**

Title: [Quality of Life Grant: Direct Effort \(Tier 1\)](#)

Application Deadline: ***Limited*** Because WSU may only submit one application, Notices of Intent to apply must be sent to proposals@wichita.edu by January 24, 2022 at 5pm, in case an internal competition is needed. You will be informed if you have been chosen to proceed by February 9, 2022. Applications to the funder (if selected) will be due by March 9, 2022.

Purpose: “As a pillar of the Paralysis Resource Center, the Quality of Life Grants Program, pioneered by the late Dana Reeve, impacts and empowers people living with paralysis, their families and caregivers by providing grants to nonprofit organizations whose projects and initiatives foster inclusion, involvement and community engagement, while promoting health and wellness for those affected by paralysis in all 50 states and U.S. territories. Direct Effect (Tier 1) is open-focused and awards grants of up to \$25,000 to support a wide range of projects and activities. Grants fund programs and projects that will clearly impact individuals living with paralysis and their families (see [full program details](#)).” Note, a technical assistance webinar on this opportunity will be held February 2, 2022. See the [website](#) to register. Also, an FAQ for this funding agency is available: [Frequently Asked Questions](#).

Amount: Up to \$25,000

Funding Agency: John Templeton Foundation

Title: [Ideas Lab Workshop: Bringing Chemistry, Physics and Computing to Life](#)

Application Deadline: January 31, 2022

Purpose: “A new grant award from the John Templeton Foundation invites applications to an Ideas Lab workshop, to be held June 19-24 (2022) in Prague CZ, in order to stimulate novel, collaborative research at the interface between nonequilibrium physics, artificial life, and biological chemistry. The grant will pay all travel and lodging costs for up to 30 successful applicants. The goal of the event is to help early career researchers* both within and beyond academia better position themselves for high-impact, transdisciplinary research at the highest levels of international excellence. To achieve this goal, the workshop will not only broaden each attendee’s knowledge base and professional network, but will also offer them the opportunity to apply for stakes in up to \$5 million total funding for developing the ideas produced by the week’s activities.”

Amount: Travel and Lodging Costs

Funding Agency: American Vineyard Foundation

Title: [Research Proposals for FY 2022-2023](#)

Application Deadline: January 31, 2022

Purpose: “The AVF is committed to employing the recommendations of its review committees to fund research priority projects that attempt to solve viticulture and enological problems, improve grape and wine quality, focus on sustainable strategies and provide pathways for dissemination of research results to the wine community.”

Amount: See application website for examples of previously funded projects

Funding Agency: PCORI: Patient-Centered Outcomes Research Institute

Title: [Implementation and Research PCORI Funding Announcements](#)

Application Deadline: Letters of Intent due February 1 for Implementation, February 8 for Research

Purpose: See website for list of opportunities on a variety of research and implementation topics. Current research topics include “Brief Interventions for Adolescent Alcohol Use,” “Comparative Effectiveness of Interventions Targeting Mental Health in Individuals with Intellectual and Developmental Disabilities,” and “Prevention, Early Identification and Treatment of Delirium in Older Adults,” for example.

Amount: Varies by opportunity

Funding Agency: Environmental Protection Agency (EPA)

Title: [Research to Reduce Consumer Food Waste in the United States](#)

Application Deadline: February 9, 2022

Purpose: “The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing cutting-edge transdisciplinary research (integrating diverse disciplines such as behavioral science, psychology, economics, public health, and sociology) to develop, apply, and test innovative and creative community-engaged approaches/methods to reduce household food waste through prevention (i.e., not redistribution) in the United States (U.S.) in real world settings. Prevention of household food waste means that the amount of food available for consumption in a household that is not ultimately eaten by the household is reduced.”

Amount: \$750,000

Funding Agency: National Endowment for the Arts (NEA)

Title: [Grants for Arts Projects: Visual Arts](#)

Application Deadline: February 10, 2022 and July 7, 2022

Purpose: “The NEA is committed to supporting visual arts activity—painting, sculpture, photography, printmaking, drawing, craft, and public art—that demonstrates exceptional aesthetic investigation and meaningful community engagement. Specifically, the NEA is interested in supporting contemporary artists and the projects they undertake, such as exhibitions, residencies, publications, commissions, public art works, conservation, documentation, services to the field, and public programs. The NEA is committed to encouraging individual artistic development, experimentation, and dialogue between artists and the public.”

Amount: Matching Grants of \$10,000 - \$100,000

Funding Agency: National Endowment for the Arts (NEA)

Title: [Grants for Arts Projects: Museums](#)

Application Deadline: February 10, 2022 and July 7, 2022

Purpose: “The NEA is committed to supporting museum activity that demonstrates exceptional aesthetic investigation and meaningful community engagement. Specifically, the NEA assists museums through the support of exhibitions, care of collections, conservation, commissions, public art works, community engagement, education activities, and other museum work. Museum projects funded by the NEA demonstrate artistic excellence and artistic merit in and across a variety of mediums, movements, eras, and cultures.”

Amount: Matching Grants of \$10,000 - \$100,000

Funding Agency: Kessler Foundation

Title: [Signature Employment Grants](#)

Application Deadline: Online Concept Applications due February 22, 2022

Purpose: “Signature Employment Grants are awarded nationally to fund new pilot initiatives, demonstration projects, or social ventures that lead to a generation of new ideas to solve the high unemployment and underemployment of individuals with disabilities. Preference is given for interventions that address the intersection of race, class, gender, disability and poverty within the framework of helping individuals with disabilities obtain competitive, integrated employment in a cost-effective manner. Signature grants are not intended to fund project expansions or bring proven projects to new communities, unless there is a significant scale, scope or replicable component.”

Amount: \$100,000-\$250,000 yearly, with required cost match of 15%

Funding Agency: National Institutes of Health (NIH)

Title: [Building an Integrated Information Technology Infrastructure for State Regulatory Programs \(U2F\) \[Clinical Trial Not Allowed\]](#)

Application Deadline: February 22, 2022

Purpose: “The purpose of this Funding Opportunity Announcement is to build an integrated information technology (IT) data management system and user community to be utilized by state, local, territorial, and tribal (SLTTs) regulatory and public health partners for their human and animal food regulatory and public health programs. This cooperative agreement is intended to establish a robust IT infrastructure to assist SLTT regulatory and public health partners to better manage high quality regulatory programs and advance conformance with the regulatory standards. The IT infrastructure will be designed with the capability to

integrate with FDA data exchange systems, which supports information sharing between states as well as between FDA and state regulatory and public health partners. The data management system and user community will support continuing efforts in achieving a national integrated food supply system (IFSS), promoting One Health, supporting domestic mutual reliance (DMR) initiatives and implementing the New Era of Smarter Food Safety Blueprint.”

Amount: Maximum of \$6,000,000 per year over three years.

Funding Agency: Human Animal Bond Research Institute (HABRI)

Title: [Addressing Evidence-Based Health Benefits of Human-Animal Interaction](#)

Application Deadline: February 24, 2022

Purpose: “HABRI is issuing a call for research proposals from institutions and organizations across the globe to investigate the health outcomes of pet ownership and/or animal-assisted interventions (AAI) or therapy, both for the people and the animals involved. Proposals should have a strong theoretical framework and focus on innovative approaches to studying the health effects of companion animals on humans within the following broad categories: Child Health and Development, Healthy Aging and Mental & Physical Health and Wellness. In an effort to help address larger societal challenges, proposals that have potential to impact current public health crises or issues at the forefront of public concern are welcomed. Topics include (but are not limited to) impacts on diverse and under-represented populations, social isolation and loneliness, suicide prevention, addiction, trauma and/or post-traumatic stress, obesity, and heart health.”

Amount: While there is no budget cap, HABRI awards an average of 5-6 projects each year with project costs averaging approximately \$45,000 per project and an average duration of about 20 months

Funding Agency: Hearing Health Foundation

Title: [Emerging Research Grant](#)

Application Deadline: February 25, 2022

Purpose: “Through the Emerging Research Grants (ERG) program, Hearing Health Foundation (HHF) provides seed money to researchers with innovative approaches to hearing and balance science. HHF Emerging Research Grants are intended primarily for promising researchers who are in the early stages of their careers and focusing on hearing loss, hearing restoration and hearing and balance related conditions. Senior investigators are also eligible for grants in specific hearing and balance topics. The primary purpose of this Award is to enable the Principal Investigator (“PI”) to become established and/or produce quality research that will allow the PI to successfully compete for NIH grants or grants from other sources.”

Amount: \$50,000

Funding Agency: Kansas Creative Arts Industries Commission

Title: [Reimagined Spaces](#)

Application Deadline: Required Letter of Intent due before February 25, 2022; Full application, if invited, will be due March 1, 2022

Purpose: “Reimagined Spaces provides funding for communities to activate publicly accessible spaces for the purposes of artistic use and public programming. The program is designed to utilize artists, temporary creative interventions and arts organizations to increase community vibrancy and provide space for artistic expression and public engagement. Eligible projects may include artist studios, pop-up performance spaces, installations, activation of outdoor spaces and exhibition space. In addition, a new specific pathway has been added to the application for all mural related projects.”

Amount: \$10,000 with 1:1 match required

Funding Agency: National Endowment for the Humanities

Title: [NEH-Mellon Fellowships for Digital Publication](#)

Application Deadline: Optional draft due February 28, 2022; Full applications due April 20, 2022

Purpose: “Through NEH-Mellon Fellowships for Digital Publication, the National Endowment for the Humanities and The Andrew W. Mellon Foundation jointly support individual scholars pursuing interpretive research projects that require digital expression and digital publication. To be considered under this opportunity, an applicant’s plans for digital publication must be integral to the project’s research goals. That is, the project must be conceived as digital because the research topics being addressed and methods applied demand presentation beyond traditional print publication. Competitive submissions embody exceptional research, rigorous analysis, and clearly articulate a project’s value to humanities scholars, general audiences, or both.” Note, a webinar for this opportunity will be January 31, 2022.

Amount: \$5,000 per month

Funding Agency: Oak Ridge Associated Universities (ORAU)

Title: [Events Sponsorship Grants Program](#)

Application Deadline: March 1, 2022

Purpose: “ORAU’s Events Sponsorship Grant Program Cycle 2 applications are due March 1, 2022 for events occurring between May 1 and September 30, 2022. Each member university is limited to one award per fiscal year. Awards in the 2022 Cycle 2 competition are included in the limit. Up to \$4,000 may be requested to support an event that involves

participants from more than one ORAU member institution, including students. Examples of such events include visits to an ORAU consortium member by a renowned speaker, conferences or workshops with a focused theme, or a technology transfer/business plan competition. Any ORAU member institution in good standing may submit an event grant application through their ORAU Councilor. Only applications endorsed by an institution's ORAU Councilor will be considered."

Amount: \$4,000

Funding Agency: National Science Foundation (NSF)

Title: [Addressing Systems Challenges through Engineering Teams \(ASCENT\)](#)

Application Deadline: Preliminary Proposal Required March 2, 2022; Full proposals, if invited, will be due May 31, 2022

Purpose: "The Addressing Systems Challenges through Engineering Teams (ASCENT) program is a strategic investment of ECCS that emphasizes new collaboration modalities among the various ECCS supported sub-disciplines. ASCENT encourages robust collaborations among the devices, circuits, algorithms, systems, and networks research communities to develop innovative projects. ASCENT seeks proposals that are bold and ground-breaking transcending the perspectives and approaches typical of disciplinary research efforts. ASCENT projects are expected to lead to disruptive technologies or nucleate entirely new research fields motivated by the most pressing societal challenges the global community faces. In response to the national priority that calls for sustained scientific leadership and continued growth in semiconductor technology, this ASCENT solicitation will focus on two specific research themes: Future Semiconductor Technology (FST) and Sustainable Micro- and Nano-Electronics (SMN)." Note, [a webinar about this solicitation](#) will be held on January 24, 2022.

Amount: \$1,000,000-\$1,500,000 per year

Funding Agency: National Institutes of Health (NIH)

Title: [HEAL Initiative: Exploratory Data and Methods to Address Urgent Needs to Stem the Opioid Epidemic \(R21- Clinical Trial Not Allowed\)](#)

Application Deadline: March 10, 2022

Purpose: "The purpose of this Funding Opportunity Announcement (FOA) is to develop new, exploratory methods, approaches, and/or tools to apply to existing data streams (e.g., electronic health records, syndromic surveillance, claims data, registry data, pharmacy dispensing, and mortality records) that could provide novel insights into the dynamics of opioid and prescription drugs misuse, addiction, recovery, relapse, and recovery to facilitate rapid understanding of the opioid epidemic for prevention and treatment or to develop methods for small area estimation that inform decisions of local (e.g., substate) jurisdictions. It will emphasize approaches that shorten the lags between data capture and data availability so the data is available real-time or near real-time to provide actionable

insights, and methods and tools that improve efficiency and practical use of surveillance, clinical or other relevant data that may allow for faster or better localized responses or better allocation of resources to address the opioid epidemic.”

Amount: The combined budget for direct costs for the two-year project period may not exceed \$275,000.

Funding Agency: American Chemical Society (ACS)

Title: [Petroleum Research Fund](#)

Application Deadline: March 11, 2022

Purpose: “The Petroleum Research Fund is an endowed fund, managed by the American Chemical Society that supports fundamental research directly related to petroleum or fossil fuels at nonprofit institutions (generally colleges and universities) in the United States and other countries. ACS Petroleum Research Fund (ACS PRF) grants are intended as seed money, to enable an investigator to initiate a new research direction in the areas of synthetic organic chemistry, geochemistry, inorganic chemistry, physical organic chemistry, surface science and catalysis, chemical physics and physical chemistry, polymer science, geology and geophysics, chemical and petroleum engineering, and materials science. The investigator should not have published or received financial support from another funding agency for the proposed research. Also, proposals that the ACS PRF Committee feels are a logical extension of an investigator’s previous research may be denied as ‘not a new direction.’”

Amount: \$55,000-\$110,000 depending on funding opportunity

Funding Agency: Kansas NASA EPSCoR Program

Title: [Suborbital Flight Opportunities \(SFO\)](#)

Application Deadline: March 15, 2022 at noon is KNEP deadline; Full NASA proposal, if selected, will be due April 15, 2022

Purpose: “The Kansas NASA EPSCoR Program (KNEP) is seeking proposals for eventual submission to a NASA Notice of Funding Opportunity (NOFO), announcement number NNH22ZHA002C. Specifically, this solicitation is: ‘for current or previously funded EPSCoR projects or other research projects that are mature enough to design a research experiment or develop research experimental hardware to the point that it can be flown in a suborbital environment.’”

Amount: \$250,000 over three years

Funding Agency: National Institutes of Health (NIH)

Title: [Health Care Models for Persons with Multiple Chronic Conditions from Populations that Experience Health Disparities: Advancing Health Care towards Health Equity \(R01 - Clinical Trials Optional\)](#)

Application Deadline: March 18, 2022

Purpose: “This initiative will support innovative, collaborative, and multi-disciplinary research designed to study the effective adaptation, integration, and implementation of recommended guidelines of care of persons with multiple chronic conditions (MCCs) from populations that experience health disparities. Projects would be expected to involve more than one component and/or more than one level of influence within existing or newly proposed health care models. The goal of this initiative is attainment of optimal treatment and health outcomes goals to advance health care towards health equity.”

Amount: Application budgets are not limited but need to reflect the actual needs of the proposed project

Funding Agency: National Endowment for the Arts (NEA)

Title: [Research Grants in the Arts](#)

Application Deadline: March 28, 2022

Purpose: “Research Grants in the Arts support research studies that investigate the value and/or impact of the arts, either as individual components of the U.S. arts ecology or as they interact with each other and/or with other domains of American life.”

Amount: \$10,000-\$100,000; 1:1 Cost Match Required

Funding Agency: National Endowment for the Arts (NEA)

Title: [NEA Research Labs](#)

Application Deadline: March 28, 2022

Purpose: “Each NEA Research Lab will design a transdisciplinary research agenda, conduct project activities to execute that agenda, and prepare and disseminate reports and other products or services that will contribute substantively to a wider understanding of one of three areas of special interest to the NEA: The Arts, Entrepreneurship, and Innovation, The Arts, Creativity, Cognition, and Learning, and The Arts, Health, and Social/Emotional Well-Being.”

Amount: \$100,000-\$200,000; 1:1 Cost Match Required

Funding Agency: National Science Foundation (NSF)

Title: [EHR Core Research: Building Capacity in STEM Education Research](#)

Application Deadline: March 29, 2022

Purpose: “ECR: BCSEER supports activities that enable researchers to expand their areas of expertise and acquire the requisite knowledge and skills to conduct rigorous research in STEM education. Career development may be accomplished through investigator-initiated professional development and research projects or through institutes that enable researchers to integrate methodological strategies with theoretical and practical issues in STEM education.”

Amount: Investigator Development awards are \$350,000 over three years; Institute and Conference awards are also available under this solicitation.

Funding Agency: PCORI: Patient-Centered Outcomes Research Institute

Title: [Eugene Washington PCORI Engagement Awards](#)

Application Deadline: Letters of Intent due April 4, 2022; Full Proposals (if invited) due July 11, 2022

Purpose: “The healthcare research process traditionally includes only scientists and other research-related professionals. PCORI believes that engagement of nontraditional stakeholders—from topic selection through design and conduct of research to dissemination of results—can influence research to be more patient centered, useful, and trustworthy, and ultimately lead to greater use of research results by patients and the broader healthcare community.”

Amount: Dissemination Initiative: \$250,000; Capacity-Building: \$250,000; Stakeholder Convening: \$100,000

Funding Agency: National Institutes of Health (NIH)

Title: [Notice of Intent to Publish a Funding Opportunity Announcement for HEAL Initiative: Restoring Joint Health and Function to Reduce Pain Consortium \(RE-JOIN\) \(UC2 Clinical Trial Not Allowed\)](#)

Application Deadline: First Estimated Application Due Date will be April 29, 2022

Purpose: “The goal of RE-JOIN will be to define the innervation of the different articular and peri-articular tissues that collectively form the joint (including bone, cartilage, synovium, joint capsule, ligament, tendon, fascia and muscle), by sensory neurons that mediate the sensation of pain. Knowledge about the types and distribution of neurites in joint tissues will facilitate the identification of key receptors and mediators that induce pain by activating specific sensory neurons. These mediators and their receptors will provide novel targets for reducing pain. Research teams will map the sensory innervation of knee and/or temporomandibular joint tissues in animal models and/or human tissues and have the

option of including additional joints. Research Teams may also further adapt or develop technologies that would improve the ability to map neurons in joint tissues.”

Amount: TBD

Funding Agency: National Institutes of Health (NIH)

Title: [Shared Instrumentation Grant \(SIG\) Program \(S10 Clinical Trial Not Allowed\)](#) | [High-End Instrumentation \(HEI\) Grant Program \(S10 Clinical Trial Not Allowed\)](#) | [Basic Instrumentation Grant \(BIG\) Program \(S10 Clinical Trial Not Allowed\)](#)

Application Deadline: June 1, 2022

Purpose: “The Shared Instrument Grant (SIG) Program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of high-priced, specialized, commercially available instruments or integrated instrumentation system. The minimum award is \$50,000. There is no maximum price limit for the instrument; however, the maximum award is \$600,000. Instruments supported include, but are not limited to: X-ray diffractometers, mass spectrometers, nuclear magnetic resonance spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, flow cytometers, and biomedical imagers.”

“The High-End Instrumentation (HEI) Grant Program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of high-end, specialized, commercially available instruments or integrated systems. The minimum award is \$600,001. There is no maximum price limit for the instrument; however, the maximum award is \$2,000,000. Instruments supported include, but are not limited to, X-ray diffractometers, high throughput robotic screening systems, mass spectrometers, nuclear magnetic resonance spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, flow cytometers, and biomedical imagers.”

“The Basic Instrumentation Grant (BIG) Program encourages applications from groups of NIH-supported investigators to purchase a single high-priced, specialized, commercially available instrument or an integrated instrumentation system. The BIG Program is limited to institutions that have not received S10 instrumentation funding of \$250,001 or greater in any of the preceding 3 Federal fiscal years (FY). The minimum award is \$25,000. There is no maximum price limit for the instrument; however, the maximum award is \$250,000. Instruments supported include, but are not limited to, basic cell sorters, confocal microscopes, ultramicrotomes, gel imagers, or computer systems.”

Amount: See Purpose sections above.

Funding Agency: National Institutes of Health (NIH)

Title: [Risk and Protective Factors of Family Health and Family Level Interventions \(R01 - Clinical Trial Optional\)](#)

Application Deadline: June 5, 2022

Purpose: “The purpose of this initiative is to advance the science of minority health and health disparities by supporting research on family health and well-being and resilience. The NIMHD Research Framework recognizes family health, family well-being, and family resilience as critically important areas of research to decrease disparities and promote equity.”

Amount: Application budgets are not limited but need to reflect the actual needs of the proposed project. Maximum project period is five years.

Funding Agency: National Institutes of Health (NIH)

Title: [Exploratory/Developmental Bioengineering Research Grants \(EBRG\) \(R21 Clinical Trial Optional\)](#)

Application Deadline: June 16, 2022

Purpose: “The purpose of this engineering-oriented funding opportunity announcement (FOA) is to encourage submissions of exploratory/developmental Bioengineering Research Grant (EBRG) applications to demonstrate feasibility and potential utility of new capabilities or improvements in quality, speed, efficacy, operability, costs, and/or accessibility of solutions to problems in basic biomedical, pre-clinical, or clinical research, clinical care delivery, or accessibility. This FOA will support clinical trials that test functionality or validate performance in the chosen setting. Applications that propose phase III clinical trials in any area of cancer research are not sought by and will not be supported through this FOA.”

Amount: The combined budget for direct costs for the two-year project period may not exceed \$275,000.

Funding Agency: U.S. Department of Energy

Title: [Fellowships with the DOE Office of Fossil Energy and Carbon Management](#)

Application Deadline: Continuous/ongoing

Purpose: “The FECM is seeking motivated students, postgraduates, and faculty to participate in projects at the forefront of the clean energy transition, helping to address the climate crisis through a 12-month full-time fellowship with FECM. FECM plays an important role in providing solutions that address the climate crisis. We are working to minimize the climate and environmental impacts of fossil energy and to advance carbon management.” Note, opportunity is available to U.S. Citizens.

Amount: Varies for Student/Postgraduate/Faculty – Faculty will receive a stipend starting at \$100,000-\$125,000

Funding Agency: National Science Foundation

Title: [NSF Individual and Small Team Proposals](#)

Application Deadline: Varies by topic.

[Advanced Manufacturing](#) – proposals accepted anytime
[Applied Mathematics](#) – Nov 1-15, 2022
[Archaeology and Archaeometry](#) – July 1 and December 20 annually
[Astronomy and Astrophysics](#) – Oct 1-Nov 15, 2022
[Biological Anthropology](#) – July 20 and Jan 20 annually
[Biomechanics and Mechanobiology](#) – proposals accepted anytime
[Biophotonics](#) – proposals accepted anytime
[Biosensing](#) – proposals accepted anytime
[Cellular and Biochemical Engineering](#) – proposals accepted anytime
[Chemistry: Disciplinary Research Programs](#) – Sept & Oct - varies based on discipline
[Computational & Data-Enabled Science and Engineering](#) – Sept 1-30, 2022
[Cultural Anthropology](#) – Aug 15 and Jan 15 annually
[Ecology and Evolution of Infectious Diseases](#) – Nov 16, 2022
[Economics](#) – Aug 18 and Jan 18 annually
[Energy, Power, Control, and Networks](#) – proposals accepted anytime
[Engineering of Biomedical Systems](#) – proposals accepted anytime
[Environmental Biology](#) – proposals accepted anytime
[Environmental Engineering](#) – proposals accepted anytime
[Environmental Sustainability](#) – proposals accepted anytime
[Geophysics](#) – proposals accepted anytime
[Mathematical Biology](#) – Aug 20-Sept 5, 2022
[Methodology, Measurement, and Statistics](#) – Jan 27 & Aug 25, 2022
[Molecular and Cellular Biosciences](#) – proposals accepted anytime
[Physics](#) – Nov & Dec – varies by topic
[Secure & Trustworthy Cyberspace](#) – Sept 30, 2022
[Security and Preparedness](#) – Jan 15 and Aug 15 annually
[Social Psychology](#) – Jan 15 and Jul 15 annually
[Sociology](#) – Jan 15 and Aug 15 annually
[Statistics](#) – Dec 1-15 annually

Funding Agency: National Science Foundation

Title: [NSF Special Programs](#)

Application Deadline: Varies by topic – click each topic to learn more about these special program opportunities.

[Broadening Participation in Engineering \(BPE\)](#) – accepted anytime
[Computer and Information Science and Engineering \(CISE\): Core Programs](#) – Varies by size of application (Small, Medium, Large)
[Critical Aspects of Sustainability \(CAS\)](#) – accepted anytime
[Computer Science for All \(CS for All\)](#) – Feb 9, 2022

[Division of Chemistry: Disciplinary Research Programs \(CHE-DRP\)](#) – Oct 31, 2022 for CMI, CLP, ECS and MSN; Sept 30, 2022 for CAT, CSDM-A, CSDM-B, CTMC, SYN
[Division of Materials Research: Topical Materials Research Program](#) – accepted anytime
[Division of Physics: Investigator-Initiated Research Projects](#) – Nov 21 and 23, 2022
[Earth Sciences: Instrumentation and Facilities Program](#) – accepted anytime
[Ethical and Responsible Research \(ER2\)](#) – Feb 22 annually
[Expeditions in Computing](#) – Varies by topic
[Human-Environment and Geographical Sciences Program \(HEGS\)](#) – Aug 16, 2022
[Industry-University Cooperative Research Centers Program \(IUCRC\)](#) – Preliminary Proposals due Mar 9, 2022
[Mathematical Sciences Infrastructure Program](#) – May 10, 2022
[Partnerships for Innovation \(PFI\)](#) – Jul 13, 2022
[Robert Noyce Teacher Scholarship Program](#) – Aug 30, 2022
[Research Experiences for Undergraduates \(REU\)](#) – Aug 24, 2022
[Research Experiences for Teachers \(RET\) in Engineering and Computer Science](#) – Oct 12, 2022
[Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science](#) – Nov 10, 2022

EDUCATION / TRAINING

Introduction to the WSU Office of Research Workshops

Topics include WSU Office of Research resources and contact, WSU policies and procedures related to research, finding funding, project budgeting and grant-writing tips. Previously recorded workshops can also be found on the Office of Research website.

[See the list of upcoming workshops and sign up to attend](#)

DOJ: Bureau of Justice Assistance: The Funding Process: First Steps to Applying, How to Prepare Now, and Other Considerations: January 26, 2022

This is the second of two webinars that will prepare applicants for Bureau of Justice Assistance (BJA) funding opportunities. Prior to the release of a solicitation, there are a number of steps that applicants can take. In this webinar, attendees will learn what registrations are necessary to apply, how to navigate Grants.gov and JustGrants, and what resources are available for applicants, such as the Office of Justice Programs' Funding Resource Center. A Q&A session will follow at the end of the presentation.

[Register for DOJ BJA Funding Process Webinar](#)

Sound Health Network: Music During Incarceration: January 26, 2022

Join us for our next webinar on Music during Incarceration. Our panel will include Alison Etter, MM, MT-BC, a music therapist working at Kerrville State Hospital, serving individuals on a forensic commitment, such as those who were found not guilty by reason of insanity. She will be joined by ethnomusicologist Benjamin Harbert, PhD, who directed the film Follow Me Down: Portraits of Louisiana Prison Musicians and who is an Associate Professor at Georgetown University, along with Conseula Gaines, an organizer, educator and motivational speaker who aims to change the criminal justice system in the US, after spending 22 years incarcerated for a crime of passion. The Sound Health Network is an initiative of the National Endowment for the Arts, in partnership with the University of California, San Francisco, in collaboration with the National Institutes of Health, the John F. Kennedy Center for the Performing Arts, and Renée Fleming.

[Register for Sound Health Network Webinar](#)

Creating Structured R&D Data for Artificial Intelligence: January 27, 2022

The most challenging barrier for R&D teams to make use of machine learning and artificial intelligence is not using the best technique, but having access to clean, structured data. Current data systems often fall short, with inputs and outputs not connected, ambiguity in naming, and under-specification of results. As a result, machine learning wins are isolated to teams working on specialized projects. Watch this webinar to learn the framework for a modern, structured, data management system. When a traditional ELN or LIMS is used, teams often still work in spreadsheets, making it impossible for the entire company to benefit from their learnings. A modern system will move scientists out of spreadsheets and create a set of data that the entire company can benefit from.

[Register for Creating Structured R&D Data for Artificial Intelligence Webinar](#)

Leonard Wood Institute and Army's Developmental Command Analysis Center (DAC) Virtual Webinars on Converging Research Opportunities: January 27, 2022 and February 4, 2022 (2pm Central)

The Leonard Wood Institute (LWI) in support of the Army's Development Command Analysis Center (DAC) is inviting you to a virtual webinar where we along with our Army partners will discuss converging research opportunities. Each webinar will last approximately one hour or less and will be hosted using the webinar using the Zoom platform. Topics to be discussed include the [Army Research Laboratory Broad Agency Announcement for Basic & Applied Scientific Research](#) submission process, discussion of Cooperative Agreements and collaboration, discussion on Army modernization priorities and maneuver support, and limited question and answers. Both webinars will be covering the same topic areas on both dates so you need only attend one webinar.

[Email Funding for a link to each webinar and additional information](#)

Hanover Research Grants Workshops: January 27, February 24, March 24, April 28, May 26, June 30, 2022

Hanover Research is offering a series of webinars on a variety of topics “designed to help grant-seekers to develop their skills and plan for upcoming competitions.” The webinar on January 27, 2022 is titled “Keys to a Competitive NSF S-STEM” and the webinar on February 24, 2022 is titled “Tools of the Trade: National Institutes of Health.”

[Sign up for the Hanover Research Grants Newsletter](#)

Office of Research Workshop: NASA Funding: Dr. Solomey & Dr. Vivod: February 2, 2022, at 10am Central

The WSU Office of Research is pleased to announce that Dr. Nick Solomey (WSU Professor, Department of Mathematics, Statistics and Physics) and Dr. Stephanie Vivod (NASA John H. Glenn Research Center; Research Chemical Engineer, Research Aerospace Technology, Aerospace Polymeric Materials) will be presenting about applying for successful NASA funding and funding opportunities at NASA. The workshop will be held via zoom.

Email proposals@wichita.edu to receive a link to this NASA workshop

Air Force Office of Scientific Research (AFRL) What’s the Next Big Question?: AI: Leaders in A.I. Discuss the Science of the Future: February 2, 2022

Join us on Wed., Feb 2nd, at 2PM ET, for the next installment of our ongoing series of two hour sessions with leaders in AI, including Rauf Izmailov, Peraton Labs, Vladimir Vapnik, Columbia, Katerina Fragkiadaki, Carnegie Mellon, Carla Gomez, Cornell, Bart Selmen, Cornell, Benji Maruyama, AFRL and Doug Riecken, AFRL/AFOSR, as they discuss the science of the future, the pursuit of ideas, and unanswered questions.

[Sign up for AFRL Discussion](#)

PCORI 2022 and Beyond: Opportunities for Funding and Involvement in Patient-Centered Research: February 2, 2022

During this live webinar, PCORI Executive Director Nakela L. Cook, MD, MPH, and other PCORI leaders will share PCORI's bold vision for 2022; initiatives and opportunities for funding and involvement in our work, including research, implementation, and Engagement Award funding opportunities; and ways to get involved with PCORI through advisory panels, the Ambassador program, and merit review program.

[Register for PCORI 2022 and Beyond](#)

Office of Research Workshop: Using Pivot to Search for Funding: February 3, 2022, at 4pm Central

Fran Cook of the WSU Office of Research will demonstrate tips and tricks for using Pivot to search for funding opportunities. The workshop will be held via zoom. Please sign up for a Pivot account in advance so that you may practice searching Pivot during the workshop.

Email proposals@wichita.edu to receive a link to the Pivot workshop or to request instructions for creating a Pivot account at WSU

HSI Hispanic Serving Institutions STEM Hub: Fall & Winter 2021-2022 Grant Writer Webinar Series: February 4, 2022

The NSF HSI STEM Resource Hub hosts grantsmanship webinars to support grant writing efforts for those planning on writing their first grant or engaged in writing a grant for submission. The Fall 2021 Grant Writer Webinar Series features speakers and panelists from the National Science Foundation for sharing important information for writing a competitive NSF grant. Dr. Martha Desmond and Dr. Delia Valles are the hosts for this series. The HSI STEM Hub recommends participation in these webinars if you are currently writing a proposal or are interested in grant writing. Several topics will be presented through the semester; the topic on February 4, 2022 is on the National Science Foundation's Alliance for Graduate Education and Professoriate at Hispanic Service Institutions.

[Register for Upcoming HSI STEM Hub Webinars](#)

HSI (Hispanic Serving Institutions) STEM HUB Workshop on Applying for NSF CAREER Awards (for Junior Faculty): February 11, 2022

This workshop will introduce you to the CAREER program and critical differences between CAREER and other NSF proposal mechanisms. There will be plenty of time for questions. Enrollment is free and is limited to 20 participants per workshop, but you must apply to attend. Preference is given to pre-tenure HSI faculty and staff.

[Apply to attend HSI STEM Hub Workshop on NSF CAREER Program Application](#)

National Science Foundation (NSF) Division of Environmental Biology (DEB): Virtual Office Hours: February 14, 2022

NSF's Division of Environmental Biology's Virtual Office Hours are on the second Monday of every month from 1pm-2pm ET. Upcoming topics are listed at the webpage below. The session on February 14, 2022 will be on the topic of *How to Write a Great Review*.

[Sign up for upcoming NSF DEB Office Hour Topics and View Slides of Previous Meetings](#)

ORAU 2022 Annual Meeting of the Council of Sponsoring Institutions: March 7-8, 2022

Registration is now open for the 2022 Annual Meeting of the ORAU Council of Sponsoring Institutions. The theme for this year's meeting is *Public Health Security and Innovation: Lessons Learned from COVID-19*. Your participation will provide an opportunity for you and your colleagues to discuss key technology, economic, and policy challenges and opportunities. The 2022 Annual Meeting will be held virtually over two days. Sessions will begin on Monday, March 7, and conclude on Tuesday, March 8. Advance registration is required before February 28, 2022. There is no registration fee to attend, and no limit on the number of university representatives wishing to attend.

[Register for ORAU 2022 Annual Meeting](#)

XSEDE Courses

Extreme Science and Engineering Discovery Environment (XSEDE) is a virtual collaboration funded by the National Science Foundation that facilitates free, customized access to advanced digital resources, consulting, training, and mentorship. XSEDE helps the nation's most creative minds discover breakthroughs and solutions for some of the world's greatest scientific challenges. Upcoming events include "Parallel Computing Concepts" on January 20, 2022.

Check for upcoming courses on the [XSEDE Course Calendar](#)

IMPORTANT ANNOUNCEMENTS

National Science Foundation (NSF) Pre-award and Post-award Disclosures Relating to the Biographical Sketch and Current & Pending Support

NSF has issued an updated version of the table related to pre-award and post-award disclosures. The updated table (updated January 10, 2022) now includes information about start-up packages. If you apply for or have been awarded NSF funding, please review this information.

[NSF Reference Table on Pre-award and Post-award Disclosures](#)

National Institutes of Health (NIH) Pre-award and Post-award Disclosures Relating to the Biographical Sketch and Other Support

Likewise, NIH also has provided guidance on disclosures for NIH applications and awards. If you apply for or have been awarded NIH funding, please review this information.

[NIH Pre- and Post-Award Disclosures Website](#)

NIH National Institute on Aging - Notice of Special Interest: Research on Pain, Pain Management, and Opioids in Aging

This Notice of Special Interest (NOSI) invites research applications that focus on improving the understanding of mechanisms underlying pain experience with aging; enhancing assessment, prevention, and management strategies for pain in older adults; and improving health equity of aging populations suffering with pain. New applications, resubmissions, competing renewals, and competing revisions to existing awards are all encouraged through this NOSI.

NIH Notice Number [NOT-AG-22-004](#)

NIH National Institute on Minority Health and Health Disparities - Notice of Special Interest: Research to Address Vaccine Hesitancy, Uptake, and Implementation among Populations that Experience Health Disparities

Research is needed to understand and address misinformation, distrust, and hesitancy regarding uptake of vaccines (e.g., SARS-CoV-2, pneumococcal, influenza, hepatitis B, human papilloma virus (HPV)) among adults in the United States and territories, especially in populations at increased risk for morbidity and mortality due to long-standing systemic health and social inequities and chronic medical conditions. This NOSI is focused on adults 18 years and older except for SARS-CoV-2 and HPV-related vaccine topics, which may include eligible children and adolescents. The purpose of this NOSI is to solicit research to: 1) evaluate community-engaged interventions (e.g., expand reach, increase access, address psychosocial barriers) to facilitate vaccination uptake in clinical and community contexts; 2) evaluate organizational, local, state, and federal policies and initiatives that mitigate or exacerbate disparities in vaccine access, uptake, and series completion, and 3) understand and address barriers to increasing reach, access, and uptake of vaccinations among populations who experience health disparities.

NIH Notice Number [NOT-MD-22-006](#)

National Institutes of Health (NIH) Revised NIH Grants Policy Statement for FY 2022

The revised NIH Grants Policy Statement (NIHGPS) has been published, replacing the April 2021 version as standard terms and conditions of award. This revision applies to all NIH grants and cooperative agreements with budget periods beginning on or after October 1, 2021.

[NIH FY 2022 Grants Policy Statement](#)

Department of Energy - Request for Information on Renewable Fuel Scale-Up and Demonstration

The U.S. Department of Energy (DOE) has released a new Request for Information (RFI) on the scale-up and demonstration of renewable fuels. The RFI, titled “Overcoming Barriers to Renewable Fuel Scale-Up and Demonstration,” seeks input from biofuels producers and technology developers about their readiness to scale process technologies to pilot- and demonstration-scale sustainable aviation fuel (SAF), renewable diesel, and renewable marine fuels. The RFI also seeks input on how the first-generation ethanol and other existing industries could be leveraged to provide low-cost feedstock and infrastructure for biofuels production, including information on practices that can reduce the carbon intensity of corn production. Note – responses are due by January 31, 2022.

DOE [Request for Information \(RFI\) Notice](#) from the Bioenergy Technology Office

National Academies of Science, Engineering, Medicine – Free Publication Downloads

National Academies has mobilized critical expertise in science, engineering, and medicine to support decision-makers at all levels as they continue to manage public health and safety. The top 15 downloaded publications of 2021 include such items as “The Future of Nursing 2020-2030: Charting a Path to Achieve Health Equity (2021),” “The Future of Electric Power in the United States” and “Pathways to Discovery in Astronomy and Astrophysics for the 2020s.” See more and download free PDFs of many publications on the NAP website.

Free Downloads on [National Academies Press \(NAP.edu\)](#)

PCORI Announces Changes to Applications and Funding Processes

To simplify and clarify our application process and enhance our merit review process, PCORI will merge the Pragmatic Clinical Studies and Broad PCORI Funding Announcements (PFAs) into a single Broad Pragmatic Studies opportunity in early 2022. The new PFA will also pilot a new fast-track resubmission process as well as continue two pilot programs introduced in 2021 – the ability to request coverage for certain patient care costs and the deferral of application submissions following an accepted Letter of Intent.

Read the PCORI Leadership Perspective: [Innovations in PCORI Application and Funding Processes Will Increase Clarity, Opportunities for Applicants](#)

ORAU Partnership for Public Service

The Partnership for Public Service has launched a new program to increase access to talent through the Intergovernmental Personnel Act (IPA) Talent Exchange Program. The IPA enables experienced professionals from outside government—including academia and nonprofit organizations—to serve in the federal government for up to two years without going through the traditional federal hiring process. This exchange program standardizes the process for recruiting, onboarding, and managing IPAs to get candidates approved and placed in federal agencies quickly and efficiently. Candidates will apply to serve in an IPA

assignment that aligns with their work, and the Partnership will identify potential agency placement opportunities, matched to a candidate's experience.

[ORAU Partnership for Public Service webpage](#)

FREE WSU Office of Research Services

Email funding@wichita.edu to:

- Request an individual Research Orientation with the WSU Office of Research team;
- Set up a Pivot account and receive guidance on how to search the database to find funding opportunities;
- Subscribe to funding announcements and funding-related alerts; and
- Attend Research Workshops that will help you with finding funding, budgeting and writing effective proposals (and much more)!

Please let us know how we can help you.

Wichita State University Office of Research

<https://www.wichita.edu/research/>

316-978-3285 research@wichita.edu