

FUNDING OPPORTUNITY ANNOUNCEMENTS

Funding Opportunities (College of Science)

July-September, 2023



OFFICE
OF GRANTS
& RESEARCH, KNUST



FACULTY OF BIOSCIENCES

1. [HEAL Initiative: Discovery of Biomarkers and Biomarker Signatures to Facilitate Clinical Trials for Pain Therapeutics \(UG3/UH3 Clinical Trial Optional\)](#)

Primary funder name: National Institutes of Health (NIH)

Summary text: The purpose of this Funding Opportunity Announcement (FOA) is to promote the discovery of candidate biomarkers or biomarker signatures for pain that can be used to facilitate the testing of non-opioid pain therapeutics in Phase II clinical trials.

Deadline Information: 10 Jul 23. Optional Letter of Intent due 30 days prior to application due date.

Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-24-018.html>

Disciplines: Biological Markers & Sensor Mechanisms; Clinical Medicine; Data Analysis; Pain Management; Pharmacotherapy

2. [Career Development Awards](#)

Primary funder name: American Society of Gene and Cell Therapy

Summary text: The purpose of these awards is to support independent transformative pilot studies in gene and cell therapy by ASGCT members, particularly those ideas that would be challenging to fund with normal funding mechanisms. ASGCT is interested in helping applicants generate their own independent preliminary data to use in larger proposals (NIH K awards, first-submission R-level funding, etc.) to gain independence.

Deadline Information: 01 Aug 23

Website: <https://asgct.org/awards/career-development-awards>

Disciplines: Biochemistry & Molecular Biology; Gene Therapy; Genetic Engineering; Immunisation Programmes & Vaccination

3. [Research grants](#)

Primary funder name: Mizutani Foundation for Glycoscience

Summary text: The Foundation provides research grants to outstanding proposals for basic and applied studies on glycoconjugate in the fields of organic chemistry, biochemistry, biophysics, molecular biology, cellular biology and medical sciences.

Deadline Information: 01 Sep 23

Website: <http://www.mizutanifdn.or.jp/grant/apply.html>

Disciplines: Biochemistry & Molecular Biology; Biological Physics; Carbohydrates; Cell & Developmental Biology; Glycomics; Organic Chemistry

4. [Call for Proposals: Mitigating antimalarial drug resistance in Africa](#)

Primary funder name: Unitaid

Summary text: Unitaid is pleased to announce this call for proposals aimed at mitigating antimalarial drug resistance in Africa through interventions that rapidly diversify artemisinin-based combination therapy (ACT) use. Artemisinin partial resistance has been confirmed for the first time in Africa, specifically in Eritrea, Rwanda, and Uganda, though experts believe that the problem is likely more widespread. While ACTs continue to be the mainstay treatment for malaria, short-term resistance mitigation strategies focus on scaling-up and supporting the optimal use of quality ACTs alongside other efforts to mitigate resistance.

Deadline information: 11 Aug 23

Website: <https://unitaid.org/call-for-proposal/mitigating-antimalarial-drug-resistance-in-africa/#en>

Disciplines: African Studies; Drug Resistance; Malaria

5. [Project grants](#)

Primary funder name: International Society of Antimicrobial Chemotherapy

Summary text: These support antimicrobial research in low- to middle-income countries.

Deadline information: 01 Sep 23

Website: <https://www.isac.world/funding/isac-project-grants>

Disciplines: Antibiotics; Disease Control; Health Systems in Developing Countries; Infection Agents & Pathogens; Infectious Diseases

6. [AREF research development fellowships](#)

Primary funder name: Medical Research Foundation (MRF)

Summary text: The aim of the Research Development Fellowship Programme is to provide opportunities for talented health researchers based in Africa, so that they can lead research that is responsive to its African settings and can contribute to reducing the burden of disease.

Deadline information: 14 Sep 23

Website: <https://www.africaresearchexcellencefund.org.uk/fellowships>

Disciplines: Infant Paediatrics; Maternal Health; Medicine & Health; Tropical & Neglected Diseases

7. [Postdoctoral fellowships](#)

Primary funder name: de Duve Institute

Summary text: These enable young scientists to pursue postdoctoral research within one of the research groups in the institute. The one-year fellowships are renewable once and provide a monthly allowance of approximately €2,600.

Deadline information: 15 Sep 23. The semi-annual deadlines for application are March 15 and September 15. The group leader of the laboratory of choice must be contacted before any application.

Website: <http://www.deduveinstitute.be/post-doctoral-program>

Disciplines: Asthma; Bioinformatics; Bowel Diseases; Cancer Studies & Oncology; Computational Biology; Diabetes; Genetics & Systems Biology; Hormones & Endocrinology; Human Metabolism; Infectious Diseases; Stem Cell

8. Macular Degeneration Research Program

Primary funder name: BrightFocus Foundation

Summary text: BrightFocus provides research funds for researchers pursuing pioneering research leading to greater understanding, prevention, and treatment of age-related macular degeneration. Applicants may apply for one of the 3 categories under the Macular Degeneration Research Program: Postdoctoral Fellowship, New Investigator Grant and Innovative Research Grant

Deadline information: 31 Jul 23. All deadlines are 5:00 p.m. EST (Washington, D.C.) on the day of the deadline.

Website: <https://www.brightfocus.org/grants/types-grants>

Disciplines: Blindness; Eye Diseases; Ophthalmology; Orthoptics

9. Beta Sigma Kappa (BSK) Research Fellowship

Primary funder name: American Academy of Optometry Foundation

Summary text: The Beta Sigma Kappa (BSK) Research Fellowship, administered by the American Academy of Optometry Foundation (AAOF), supports new optometric and vision science faculty research and optometric resident research. The fellowship funding is designed to benefit individuals early in their career whose academic curiosity has led them to seek answers to a vast variety of professionally-based questions covering a wide area of vision science, clinical practice, or eye related public health.

Deadline information: 01 Aug 23

Website: <https://aaopt.org/awards-grants/graduate-students/#bsk>

Disciplines: Clinical Medicine; Eye Diseases; Optometry; Orthoptics; Public Health; Vision Science

10. Commonwealth professional fellowships

Primary funder name: Commonwealth Scholarship Commission in the UK (CSC)

Summary text: These enable mid-career professionals from developing Commonwealth countries to visit a UK host organisation working in their fields for a programme of professional development. Fellowships include airfare, a monthly living allowance and other stipends to help the fellow.

Deadline information: 15 Aug 23

Website: <https://cscuk.fcdo.gov.uk/scholarships/commonwealth-professional-fellowships-information-for-candidates/>

Disciplines: Air Pollution, Regulation & Control; Climate Change & Global Warming; Oceanography; Renewable Energy Engineering; Sustainable Development & Resource Use

11. Johnson & Johnson Women in STEM²D Scholars Program (WiSTEM²D Scholars Program)

Primary funder name: Johnson & Johnson (J&J)

Summary text: Johnson & Johnson WiSTEM²D Scholars Award is an award to support women pursuing research in STEM²D (Science, Technology, Engineering, Math, Manufacturing & Design). WiSTEM²D Scholars Award aims to fuel the development of female STEM²D leaders and feed the STEM²D talent pipeline by awarding and sponsoring women at critical points in their research careers, in each of the STEM²D disciplines.

Deadline information: 30 Sep 23. Applications for the 2023 WiSTEM2D Scholars Award open on August 22nd.

Website: <https://www.jnj.com/wistem2d-university-scholars>

Disciplines: Agriculture, Veterinary & Food Science; Design; Energy Engineering; Engineering; Engineering Design; Food Manufacturing & Processing; Industrial Design; Manufacturing & Industrial Engineering; Manufacturing Processes & Technologies; Mathematical Sciences; Physical Sciences; Physical Sciences and Engineering; Sustainable Development & Resource Use

12. [Career development awards](#)

Primary funder name: Wellcome Trust

Summary text: This scheme provides funding for mid-career researchers from any discipline who have the potential to be international research leaders.

Deadline information: 27 Jul 23

Website: <https://wellcome.org/grant-funding/schemes/career-development-awards>

Disciplines: Any

13. [Discovery awards](#)

Primary funder name: Wellcome Trust

Summary text: This scheme provides funding for established researchers and teams from any discipline who want to pursue bold and creative research ideas to deliver significant shifts in understanding that could improve human life, health and wellbeing.

Deadline information: 25 Jul 23

Website: <https://wellcome.org/grant-funding/schemes/discovery-awards>

Disciplines: Any; Medicine & Health

14. [Cryo-CLEM Labels RFA](#)

Primary funder name: Chan Zuckerberg Initiative

Summary text: The Chan Zuckerberg Initiative (CZI) seeks to support one-year projects in the field of cryo-correlative light and electron microscopy (cryo-CLEM) labels. To gain a deeper mechanistic understanding of biological systems, CZI's Imaging program aims to visualize and measure them across biological context. This Request for Applications (RFA) seeks to drive development of complete, general-purpose, intracellular imaging probes for cryo-CLEM. This grant program will advance the utility of cryo-electron tomography (cryo-ET) of cells by providing information on specific aspects of cell function.

Deadline information: 20 Jul 23

Website: <https://chanzuckerberg.com/rfa/cryo-clem-labels/>

Disciplines: Biochemistry & Molecular Biology; Cell Physiology & Metabolism; Geoscience Instrumentation & Imaging; Magnetism & Electromagnetism; Microscopy; Molecular Probes; Radiology & Medical Imaging

15. Partnership grants - applied global health research

Primary funder name: Medical Research Council (MRC)

Summary text: These support research that will address global health challenges and inequities with direct practical benefit to LMIC populations.

Deadline information: 01 Aug 23

Website: <https://www.ukri.org/opportunity/applied-global-health-partnership/>

Disciplines: Health Economics; Health Systems in Developing Countries; Health Systems Policy; International Health; Non-Communicable Diseases; Public Health; Urban Planning & Policy

FACULTY OF PHYSICAL AND COMPUTATIONAL SCIENCES

1. [Push open call](#)

Primary funder name: ICAERUS

Summary text: This supports projects aiming to deliver and exploit drone related data sets for assessing technological and non-technical hypotheses.

Deadline information: 11 Jul 23

Website: <https://icaerus.eu/open-calls/>

Disciplines: Data Analysis; Drones

2. [Call for Proposals to Strengthen Education Data Systems and Data Use](#)

Primary funder name: International Development Research Centre (IDRC)

Summary text: IDRC and GPE are pleased to invite proposals for applied research projects that will generate and mobilize evidence about the best ways to scale the impact of innovative approaches for strengthening education data systems and data use. This call addresses three interrelated challenges, each of which requires research that addresses technical issues, multiple aspects of capacity strengthening, and effective governance and sustainability.

Deadline information: 17 Jul 23

Website: <https://idrc.ca/en/funding/call-proposals-strengthen-education-data-systems-and-data-use>

Disciplines: Algorithms; Data Analysis; Education

3. [High-throughput and Secure Networks Challenge program](#)

Primary funder name: National Research Council (NRC) - Canada

Summary text: Delivered by the NRC's Advanced Electronics and Photonics Research Centre, the High-throughput and Secure Networks Challenge program is developing disruptive technologies and technologies that improve the cost and performance of delivering secure, affordable and high-speed internet services in rural and remote communities across Canada.

Deadline information: 01 Aug 23

Website: <https://nrc.canada.ca/en/research-development/research-collaboration/programs/high-throughput-secure-networks-challenge-program>

Disciplines: 5G, Wireless & Mobile Networks; Cybersecurity; Photonics & Optical Communication; Satellite Communications; Telemetry & Measurement Sciences

4. [Hacker Initiative Grant](#)

Primary funder name: Hacker Initiative

Summary text: The purpose of the Hacker Initiative Grant Program is to strengthen and enrich the hacker community through small monetary grants. The following are examples of ways such grants can be used:

- Independent STEM education Initiatives such as homebrew hacking or robotics clubs, student led research projects, and other similar activities not otherwise supported by school or institutional grants.
- Contests, Scholarships and other Educational Programs that promote student education about information security, computers and the hacker community.
- Community events and presentations that focus on connecting students, hacker groups, and other interested parties, with recognized Industry leaders.

Deadline information: 15 Aug 23

Website: <https://hackerinitiative.org/apply-now/>

Disciplines: Cybersecurity; Mathematics Education; Robotics; Science & Technology Education

5. [Kluge Fellowship in Digital Studies](#)

Primary funder name: John W. Kluge Center

Summary text: The Kluge Fellowship in Digital Studies provides an opportunity for scholars to utilize digital methods, the Library's large and varied digital collections and resources, curatorial expertise, and an emerging community of digital scholarship practitioners. Interdisciplinary and cross-cultural research is particularly welcome in the Kluge Digital Studies program.

Deadline information: 15 Sep 23

Website: <https://www.loc.gov/programs/john-w-kluge-center/chairs-fellowships/fellowships/kluge-fellowships-in-digital-studies/>

Disciplines: Cultural History; Data Analysis; Data Structures; Digital Humanities; Digitising & Digital Archives; Measurement & Indicators in Sociology; Media & Communications Policy; Print Media & Publishing; Social Psychology; Social Sciences

6. [Corrosion and Coatings](#)

Primary funder name: Carderock Division

Summary text: Naval Surface Warfare Center Carderock Division is interested in receiving proposals for the following Basic Research Opportunity Areas: 1. Advanced Materials 2. Modeling and Analytics 3. Training and Product Support

Deadline information: 13 Sep 23

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=343515>

Disciplines: Computer Simulation & Modelling; Corrosion & Coatings; Data Analysis; Materials Sciences; Military Education & Training; Military Technology; Vocational & Technical Education & Training

7. [BRAIN Initiative: Theories, Models and Methods for Analysis of Complex Data from the Brain \(R01 Clinical Trial Not Allowed\)](#)

Primary funder name: National Institutes of Health (NIH)

Summary text: This Funding Opportunity Announcement (FOA) seeks the development of theories, computational models, and analytical tools to derive understanding of brain function from complex neuroscience data. Proposed projects could develop tools to integrate existing theories or formulate new theories; conceptual frameworks to organize or fuse data to infer general principles of brain function; multiscale/multiphysics models to generate new testable hypotheses to design/drive

future experiments; new analytical methods to substantiate falsifiable hypotheses about brain function.

Deadline information: 12 Sep 23. Optional Letter of Intent due 30 days prior to the application due date. All applications are due by 5:00 PM local time of applicant organization.

Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-039.html>

Disciplines: Biological Systems Analysis & Modelling; Central Nervous System; Computational Biology; Computer Simulation & Modelling; Data Analysis; Neuronal Models & Neural Networks; Neuroscience

8. [Cryo-CLEM Labels RFA](#)

Primary funder name: Chan Zuckerberg Initiative

Summary text: The Chan Zuckerberg Initiative (CZI) seeks to support one-year projects in the field of cryo-correlative light and electron microscopy (cryo-CLEM) labels. To gain a deeper mechanistic understanding of biological systems, CZI's Imaging program aims to visualize and measure them across biological context. This Request for Applications (RFA) seeks to drive development of complete, general-purpose, intracellular imaging probes for cryo-CLEM. This grant program will advance the utility of cryo-electron tomography (cryo-ET) of cells by providing information on specific aspects of cell function.

Deadline information: 20 Jul 23

Website: <https://chanzuckerberg.com/rfa/cryo-clem-labels/>

Disciplines: Biochemistry & Molecular Biology; Cell Physiology & Metabolism; Geoscience Instrumentation & Imaging; Magnetism & Electromagnetism; Microscopy; Molecular Probes; Radiology & Medical Imaging

9. [Grant-in-aid programme](#)

Primary funder name: International Centre for Diffraction Data (ICDD)

Summary text: This provides support to proposals for the preparation of reference x-ray powder diffraction data.

Deadline information: 31 Jul 23. New applicants require approval prior to submitting a proposal.

Website: <https://www.icdd.com/grant-in-aid/>

Disciplines: Classical Optics; Crystallography; Materials Properties & Analysis; Nonlinear Optics; Radiation Sources & Isotopes

10. [ACS Petroleum Research Fund \(ACS PRF\) Grants](#)

Primary funder name: American Chemical Society (ACS)

Summary text: 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.

The current programs are:

- New Directions (ND): Grants for new directions in research
- Doctoral New Investigator (DNI): Starter grants for new faculty
- Undergraduate Research (UR): Grants for undergraduate faculty
- Undergraduate New Investigator (UNI): Starter grants for new faculty

Deadline information: 08 Sep 23

Website: <http://www.acs.org/content/acs/en/funding-and-awards/grants/prf/programs.html>

Disciplines: Chemical Engineering; Chemistry; Fossil Energy; Petroleum & Coal Geology; Petroleum Engineering

11. [Climate Solutions and Sustainable Entrepreneurship](#)

Primary funder name: United States Department of State (DOS)

Summary text: The Office of Global Partnerships (GP) of the U.S. Department of State (DOS) announces an open competition for organizations to submit a statement of interest (SOI) to carry out a program (or programs) to expand and amplify the Department's response to the climate crisis and capitalize on the resources of GP's Coalition for Climate Entrepreneurship program (CCE).

Deadline information: 14 Jul 23

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=348662>

Disciplines: Climate Change & Global Warming; Self-Employment & Entrepreneurship; Sustainable Development & Resource Use

12. [Climate, Environment and Health - Collaborative research call](#)

Primary funder name: Belmont Forum

Summary text: Belmont Forum's Latest Collaborative Research Action will address the nexus of Climate, Environment, and Health. The purpose of this call is to address an unmet need to promote, mobilize, and establish an inclusive, transdisciplinary funding scheme, through the preservation and celebration of diverse communities, research topics, ecosystems, and creative transformative solutions. One ambitious goal for this CRA will hopefully create a comprehensive culture shift through education, research, service, and advocacy to inspire a world where all animals and humans can thrive — through the integration of human medicine, veterinary medicine, and environmental science — and by adapting and protecting Earth's natural systems for generations to come.

Deadline information: 15 Jul 23

Website: <https://www.belmontforum.org/cras#ceh22023>

Disciplines: Biological Sciences; Climate Change & Global Warming; Ecosystem Function; Environmental Medicine; Environmental Policy; Environmental Science; Food Security

13. [Impacts of climate change across the cancer control continuum \(R21 Clinical Trial Optional\)](#)

Primary funder name: National Cancer Institute (NCI)

Summary text: This Notice of Funding Opportunity (NOFO) aims to support innovative research relevant to advancing the understanding of the effects of climate change across the cancer control continuum, from cancer etiology and cancer risks through survivorship, and ways to prevent or mitigate negative health effects.

Deadline information: 16 Jul 23. All applications are due by 5:00 PM local time of applicant organization.

Website: <https://grants.nih.gov/grants/guide/pa-files/PA-23-152.html>

Disciplines: Carcinogenesis; Climate Change & Global Warming; Clinical Medicine; Diagnostic Sciences; Environmental Medicine

14. [Atlas Corps Fellowships](#)

Primary funder name: Atlas Service Corps, Inc. (Atlas Corps)

Summary text: The Atlas Corps Fellowship engages global professionals committed to social impact in 12-month US-based or 14-month Blended Fellowships where they serve with organizations in the U.S. to learn best practices, build organizational capacity, and return home to create a network of global leaders.

Deadline information: 30 Jul 23

Website: <https://atlascorps.org/apply-united-states/>

Disciplines: Climate Change & Global Warming; Environmental Science; Human Resource Management; Leadership; Production Management

15. [Defense Sciences Office Office-Wide Broad Agency Announcement](#)

Primary funder name: Defense Advanced Research Projects Agency (DARPA)

Summary text: The mission of the Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is to identify and create the next generation of scientific discovery to fuel innovation throughout the Agency and beyond. DSO serves as “DARPA’s DARPA” by developing and executing an aggressive and forward leaning portfolio that expands the art of the possible across a broad set of technical areas. DSO aims to create strategic surprise advantage for the DoD by pushing science towards its fundamental limits.

Deadline information: 31 Aug 23

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=341144>

Disciplines: Climate Change & Global Warming; Computer Science & Informatics; Materials Sciences; Remote Sensing; Research Management

16. [U.S. Mission to the United Nations-Geneva, Small Grants Program](#)

Primary funder name: United States Department of State (DOS)

Summary text: U.S. Mission Geneva’s Small Grants Program supports projects that include, but are not limited to, the following priority areas: Promoting human rights, including the protection of human rights defenders Monitoring and managing the response to humanitarian crises Strengthening global public health and global health security systems.

Deadline information: 01 Sep 23

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=344189>

Disciplines: Civil & Human Rights; Climate Change & Global Warming; Gender Roles & Sexuality; International Aid & Relief; International Health

17. [HORIZON-CL5-2023-D4-02 - efficient, sustainable and inclusive energy use](#)

Primary funder name: Horizon Europe: Global Challenges and European Industrial Competitiveness

Summary text: This supports projects that contribute to the goal of ensuring efficient and sustainable use of energy, accessible for all through a clean energy system and a just transition. The budget is €44 million. Grants are worth up to €6m each.

Deadline information: 05 Sep 23

Website: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=null;freeTextSearchKeyword=HORIZON-CL5-2023-D4-02;matchWholeText=true;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

Disciplines: Climate Change & Global Warming; Engineering; Urban Design; Waste Management & Disposal

18. [Grants](#)

Primary funder name: International Union for Quaternary Research

Summary text: These aim to stimulate the development of research networks. Funding may be worth up to €64,000 in exceptional cases.

Deadline information: 30 Sep 23

Website: <https://inqua.org/funding/grants>

Disciplines: Climatology; Glaciology; Palaeobiology; Palaeoecology; Palaeontology & Palynology; Physical Geography

19. [InnovFund-2022-SSC – Innovation Fund small scale projects](#)

Primary funder name: European Climate, Infrastructure and Environment Executive Agency (CINEA)

Summary text: This supports projects demonstrating highly innovative technologies, processes, business models or products/services, that are sufficiently mature and have a significant potential to reduce greenhouse gas emissions.

Deadline information: 19 Sep 23

Website: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/innovfund-2022-ssc>

Disciplines: Carbon Dioxide Reduction & Mitigation; Carbon Sequestration; Climate Change & Global Warming

20. [Educational resource development grants](#)

Primary funder name: Society for Radiological Protection

Summary text: These support the development of educational resources in the field of radiological protection. Grants are worth up to £3,000.

Deadline information: 30 Sep 23

Website: <http://www.srp-uk.org/careers/support-schemes>

Disciplines: Atmospheric Radiation; Radiation, Health Effects

21. Research grants

Primary funder name: Merck KGaA

Summary text: These support innovative scientific research in challenging areas of future importance. Seven grants worth up to €1.5 million each for up to three years are available.

Deadline information: 31 Aug 23

Website: <https://www.merckgroup.com/en/research/open-innovation/research-grants.html>

Disciplines: Artificial Intelligence; Computational Chemistry; Green Chemistry; Materials Synthesis; Pharmacy & Pharmacology; Sustainable Development & Resource Use