



Research and Economic Development Newsletter

January 27, 2021

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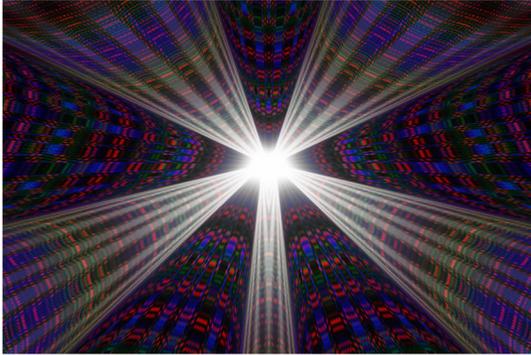
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RED Updates

A Message from the Vice Chancellor



*For there is always light,
if only we're brave enough to see it
If only we're brave enough to be it.*

From the poem "The Hill We Climb" by
Amanda Gorman.

Image: "*Light At The End Of The Tunnel*" by
Phil Ecton, released under Public Domain license.

Dear Research Community,

As you know the much-awaited vaccine for COVID-19 is now available. It is an impressive scientific achievement that the vaccine was developed in a relative short period of time when compared to other vaccines. While the current distribution of the vaccine is still slow, it does let us see the light at the end of the tunnel. This [website](#) provides a projection of when we may be able to reach herd immunity.

It is important to keep in mind that, for the time being, wearing masks, maintaining social distance, and all other preventive measures should be kept in place. We are eager to further ramp-up our research activities on campus, but we have to wait a little longer. Until the CDC, other health organizations, and the state advise us to do so, we will not be able to relax our current restrictions. We do hope that we will start to see some new guidelines as the vaccination campaign gains momentum. Thank you one more time for all your efforts trying to keep our community as safe as possible while continuing to conduct a substantial level of research activity.

Another good news in terms of science at the national level is the recent appointment of prominent scientists to important advising positions to the White House. In particular, the new Director of the Office of Science and Technology Policy will now hold also a cabinet position. Please read the Federal Relation Update below for further details.

I want to take this opportunity to highlight two important recent news from the College of Humanities, Arts, and Social Sciences at UCR:

- [The UC Riverside's 44th-annual Writers Week goes virtual.](#) This is California's longest-running free literary event. Scheduled for Feb. 13 and Feb. 16-19, 2021, this event will now be available to the whole world.
- [The Mellon Foundation awarded \\$2.9 million for 'Latinx Futures'.](#) This is the Foundation largest grant yet to UCR and will support programs within the new Center for Latino and Latin American Studies and Research.

Congratulations to all those involved!

My congratulations extends too to our Office of Technology Partnership (OTP) for another extraordinary year in terms of innovation, technology transfer, entrepreneurial, and economic development activities. The pandemic, economic crisis, racial injustice, and environmental disasters we have lived through have magnified many of the problems we still need to address in our society and put in evidence the need of a more immerse role of the university in our community. OTP, led by Associate Vice Chancellor Rosibel Ochoa, has fully embraced this position and is leading our campus in our economic development efforts. Do not miss the link to OTP's annual report listed below.

Finally, I want to express my thanks to the deans, chairs, and faculty who answered my request in the previous RED Newsletter and helped populate some of the compliance committees, which were in much need of additional members. See in particular the update from the Office of Research Integrity. We still need volunteers for the IACUC.

Please take a few minutes to read the additional updates, announcements, and funding opportunities in the rest of this newsletter.

Stay safe,

Rodolfo

Office of Technology Partnership Update

OTP Annual Report

The OTP Team is pleased to share our [Annual Report for the 2019-2020 period](#) that highlights some of our accomplishments as well as exciting teams coming out of UCR and the Inland Empire community.

UC Riverside Life Sciences Incubator Goes Live

The Life Sciences Incubator in the Multidisciplinary Research Building (MRB) managed by OTP is up and running with our first tenants, [Karamedica, Inc.](#) and [Murrieta Genomics](#). For more information about the Life Science incubator, contact David Pearson at david.pearson@ucr.edu. Learn more about [our first tenants!](#)

On Their Way to Riverside Winners of Entrepreneurial Training in Chile

OTP's International Partnerships has [successfully completed another INNOVA'R entrepreneurship training program with Know Hub Chile!](#) We will be working closely with this year's winner's to help them commercialize their technologies and access the US market.

The Future in Insulin Delivery

We incubate international technologies (such as the winners of our entrepreneurship training programs in Chile) with the goal to contribute to Riverside's economic development. Learn about [a Chilean's entrepreneur journey to bring a drug delivery technology to the US market](#) in partnership with OTP.

Office of Research Integrity Update

The Office of Research Integrity (ORI) provides broad oversight, resources and education for integrity and compliance issues relating to the conduct of research at the University of California, Riverside. We strive to promote excellence in research while ensuring compliance with federal and state regulations. Since the campus restrictions imposed in March 2020, the ORI has continued to remain fully operational remotely. All voicemails and emails are monitored routinely and all compliance committee meetings are held virtually. Remote operations will continue until further notice.

The ORI is happy to share its new resources to assist faculty in navigating human subjects research during the time of COVID-19:

- [Best Practices for Doing Research with Participants Remotely](#): Provides helpful tips, guidance and additional resources for conducting research remotely (e.g., Zoom interviews, Zoom focus groups, etc.).
- [COVID-19 Guidance for Human Subjects Researchers](#): Provides an overview of guidelines for human subjects research according to UCR's phased approach to research.
- [COVID-19 and Human Subjects Research \(HSR\) – Information Sheet for Participants](#): Provides research participants with details on the risks of COVID-19 related to participating in in-person research at UCR (only if in-person research is allowed by UCR leadership).

UCR's EH&S & IBC created resources for Investigators considering research that involves SARS-CoV-2:

- [SARS-CoV-2 Research Materials Policies & Guidelines](#)
- [SARS-CoV-2 Research Laboratory Biosafety Guidelines](#)
- [Guidance for PIs for BSL-3 SARS-CoV-2 Research Projects](#)

With increased interest and funding opportunities for COVID-19-related basic science research, the [links](#) above were created to provide guidance for UCR researchers interested in working with SARS-CoV-2 materials. Guidelines and regulations require that **all research projects** (from protein expression / analysis to working with patient samples or virus culture) be reviewed and approved by the Institutional Biosafety Committee (IBC) prior to initiation. Researchers are encouraged to visit the three links for information regarding COVID-19-related basic science research and to contact either the IBC (ibc@ucr.edu) or Biosafety Officer (ehsbiosafety@ucr.edu) for any questions.

These documents as well as other helpful information can be found on our [Resources](#) page. Please also take a moment to view the [Office of Research Integrity home page](#) to see what other services we offer that will assist you with your research needs.

Questions? Contact Us:

ORI's (virtual) doors are always open for research questions and consultations. We are also available to come speak to your class about research integrity and compliance. Appointments and general inquiries can be made by sending an email request to ORI@UCR.edu.

IRB-SB Interim Co-chairs and PRO Chair Announcement:

RED's [Institutional Review Board – Socio-Behavioral](#) is pleased to announce that [Dr. Tuppert Yates](#) (Psychology) and [Dr. Jennifer Merolla](#) (Political Science) have agreed to serve as interim co-chairs for this committee. They will be stepping in for Dr. Derick Fay who is temporarily stepping away to serve as the acting Chair for the Anthropology Department. Dr. Yates has been a member of the IRB since 2011, and Dr. Merolla has been a member since 2016. The IRB-SB is responsible for the review of socio-behavioral human subjects research conducted on behalf of the institution.

RED's [Promoting Research Objectivity Committee \(PRO\)](#) is pleased to announce that [Dr. Victor Rodgers](#) (Bioengineering) has agreed to serve as the chair of this committee. Dr. Rodgers has been a member of PRO since 2018 and will be taking over from Dr. Byron Ford, who is stepping down to serve as Associate Dean of Pre-Clerkship Medical Education in the School of Medicine. PRO is responsible for managing, reducing or eliminating research-related conflict of interests and ensuring research is free from financial bias.

RED wishes to thank Dr. Byron Ford for his leadership on the PRO committee for the past 3 years. Please join us in welcoming Dr. Yates, Dr. Merolla, and Dr. Rodgers to these important roles at UCR. As VC Torres has mentioned in previous newsletters, RED's research compliance committees are looking for faculty members to serve due to increases in research submissions in the last 10 months. Please contact us if you are able to serve – especially on the IACUC, IRB, PRO, and IBC.

Zoom Registration for ORI Seminar: Academic Scams

[The ORI Seminar Series](#) focuses on ethical dilemmas and hot topics in research, integrity, and research with human participants. The next seminar, entitled "**Research on Videogamers**" will be led by **Dr. Derek Burrill**, Associate Professor of Media and Cultural Studies. The presentation will take place at **3:00 PM on Wednesday, February 17, 2021**. Advance registration is required.

Registration: https://ucr.zoom.us/webinar/register/WN__3DhYFIdTNCpbUmMRvyh3A

Summary

How does one study videogamers? Is the researcher required to play? Play alongside their research subjects? In this talk I'll discuss the challenges of studying human subjects within interactive digital media and how participatory media reframes both the 'objectivity' of the researcher while calling for new modes of ethnography.

Biography

Derek Burrill is an Associate Professor in UCR's Department of Media & Cultural Studies. His research focuses on digital games, media, gender, and the body. His first book, *Die Tryin': Videogames, Masculinity, Culture*, was published by Peter Lang in 2008. His work has appeared in *Modern Drama*, *Text Technology*, *Social Semiotics*, and *Television and New Media*, as well as in anthologies such as *ScreenPlay*, *Spirited Away*, and *Resolutions 3*. He earned his Ph.D. in Performance and Culture at U.C. Davis in 2001. Dr. Burrill sits on the editorial boards of *Games and Culture* and the *Journal of Games and Virtual Worlds*. He is also an active producer of digital and analog art. His second book, *The Other Guy: Media Masculinity within the Margins*, is now available.

This event is free and open to the public. Prior registration is required. The number of registrants is limited.

Please share this email with anyone who may be interested in attending.

Sponsored Programs Update

Roles and Responsibilities Matrix

This past summer, a workgroup consisting of members from across the various colleges, schools, and departments at UC Riverside, convened to begin developing a Roles and Responsibilities Matrix as a visual tool to identify who predominantly has responsibility for a given role/activity within the Life Cycle of an Award. We are pleased to announce that the Roles and Responsibilities Matrix is now completed and has been posted on SPA's webpage [here](#).

A Special Note of Thanks to The Following Individuals Who Served on the Roles and Responsibilities Matrix Workgroup and to Those Who Served as an Additional Contributor:

Huguette Albrecht, Assistant Director for Research Development, BCOE
Ashley Nicole Beene, Grants Facilitator, CNAS
Fred Devera, Fund Manager, BFS
Aurelia Espinoza, Manager Sponsored Research and Programs, SOM
Stan Fletcher, Director of Systems Management, RED
Charles E. Greer, Jr., Associate Vice Chancellor for Research, RED
Lynda Jenkins, Senior Grant Writer/Facilitator, RED
Pauline M Librenjak, Assistant Controller, BFS
Camille Mahant, Financial and Administrative Analyst, UCR Libraries
Bobbi McCracken, Associate Vice Chancellor-Business & Financial Services, BFS

Christine Morgando, Financial Operations Manager (Interim), BMPN Administration
Linda Phi-Nguyen, Contract & Grant Analyst, CHASS
Laura Schulte, Senior Administrative Officer, Enrollment
Jennifer A Talbot-Encinas, Financial Administrative Manager, School of Business
Cynthia J. Wells, Assistant Vice Chancellor for Sponsored Programs, RED

Note: Due to operational structure variances within the cross-section of the workgroup, it was necessary to keep the responsibilities listed at a high level; and not get into the weeds by adding too many details or additional responsibilities, so that this matrix would apply to a greater percentage of the campus. Should you have any questions or concerns, please contact Cynthia Wells, Assistant Vice Chancellor for Sponsored Programs, at cwells@ucr.edu.

Federal Relations Update

White House Launches National AI Initiative Office

(Provided by Kathleen Eiler Director of Federal Relations)

On January 15, President-elect Biden and Vice President-elect Harris [announced](#) key members of their White House science team who will play a critical role in addressing the pandemic and advancing science-driven policy. Francis Collins will continue in his role as director of the National Institutes of Health; Eric Lander will be tapped to lead OSTP and serve as the Presidential Science Advisor; Frances Arnold and Maria Zuber will serve as external Co-chairs of the President's Council of Advisors on Science and Technology (PCAST); Alondra Nelson will serve as OSTP Deputy Director for Science and Society; Narda Jones will lead OSTP Legislative Affairs; and Kei Koizumi will serve as OSTP Chief of Staff.

The Biden Administration is focused on [four key priorities](#) (COVID-19, economic recovery, racial equity and climate change). The White House Office of Science and Technology Policy (OSTP) launched the National Artificial Intelligence (AI) Initiative Office in accordance with the recently passed National Artificial Intelligence Initiative Act of 2020. The Office will be charged with overseeing and implementing the U.S. national AI strategy and serve as the central hub for federal coordination and collaboration in AI research and policymaking across the government, academia, private sector, and other stakeholders.

NSF Social, Behavioral and Economic Sciences Update

Our Continued Commitment to Researchers, Students and The Public Value of Science

The COVID-19 pandemic has affected all of us in so many ways.

Over the course of the pandemic, the National Science Foundation has worked to support researchers through funding flexibilities and deadline extensions, and those efforts continue across all of NSF. Within our many academic and research communities, the pandemic has created greater uncertainty in a number of areas affecting our personal and professional lives. This is particularly true for those who are early in their careers or working at historically under-resourced institutions.

To face these challenges and seize the opportunities before us, our research community must continue doing the scientific work that creates opportunities, spurs innovation and improves quality of life for individuals, families and communities across the U.S.

In recognition of the distinct circumstances of this moment and in support of NSF's vital public mission, the Directorate for Social, Behavioral and Economic Sciences offers several opportunities that can help support early-career researchers, students, members of historically under-resourced institutions and others adversely affected by the pandemic.

If you work within any SBE-supported discipline, we urge you to review the opportunities below and spread the word to your colleagues.

To everyone working in the social, behavioral and economic sciences, we thank you for your tremendous work and look forward to the many discoveries and innovations yet to come.

Sincerely,

Arthur Lupia
NSF Assistant Director, SBE

Postdoctoral Research Fellowships

SBE supports early-career scientists as they embark on research projects exploring a range of topics critical to our daily lives and communities. Proposals are welcomed from postdoctoral researchers in any of the social, behavioral or economic science disciplines. See [SBE Postdoctoral Research Fellowships \(SPRF\)](#).

Graduate Student Supplements

Graduate students are an integral part of the U.S. research enterprise. Many standard research grants include supplemental funding opportunities to support graduate students, if justified with respect to the proposed research. Such support is available in all SBE disciplines and programs, including interdisciplinary programs with other NSF directorates. [Contact your program officer](#) for details.

Undergraduate Research Experiences

SBE supports undergraduate students actively participating in scientific research as part of the NSF-wide Research Experiences for Undergraduates program. Funding is available for the creation of educational sites devoted to the social, behavioral or economic sciences through the [SBE Research Experiences for Undergraduates Sites program \(SBE REU Sites\)](#).

Funding supplements to include undergraduate student participation in active research awards are also available. If your research can include undergraduates in meaningful ways, [contact your program officer](#) for details.

Minority-Serving Institutions and Partnerships

Through the Build and Broaden program, SBE provides support for cutting-edge research and research infrastructure at minority-serving institutions. Researchers at minority-serving institutions working in any SBE discipline are invited to submit proposals. Researchers at other institutions are also invited to submit proposals if they are collaborating with scientific staff at a minority-serving institution and if their proposal includes a focus on fostering scientific partnerships or capacity-building at those institutions. See [Build and](#)

In Case You Missed It

[Expanded 'Future of Work' solicitation invites proposals from social, behavioral and economic sciences researchers](#)

Researchers across the social, behavioral and economic sciences are encouraged to submit proposals to the [Future of Work at the Human-Technology Frontier: Core Research solicitation](#) by March 23, 2021.

NSF's "Future of Work at the Human-Technology Frontier" is one of ten transformative "big ideas" supporting bold, long-term research at the frontiers of science and engineering.

Funding Opportunities

Limited Submissions with Upcoming Deadlines

For more information about current and past limited submission competitions, as well as details on how to apply, please visit our website at <https://research.ucr.edu/ord/limitedsubmissions>.

21-550 (SSTEM) NSF Scholarships in Science, Technology, Engineering, and Mathematics Program

Internal Deadline: February 4, 2021

Agency Deadline for Nominations: April 7, 2021

Number of Submission Allowed: 2

Agency Application Instructions: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=330764>

Overview:

The S-STEM program provides Institutions of Higher Education (IHEs) with funds for scholarships to encourage and enable domestic low-income, academically talented students with demonstrated financial need to enter the US workforce or graduate study following completion of associate, baccalaureate, or graduate degrees in S-STEM eligible disciplines. Recognizing that scholarships alone cannot address low retention and graduation rates in STEM among low-income students, the program also supports the implementation and testing of an ensemble of existing effective evidence-based curricular and co-curricular activities featuring: (1) close involvement of faculty in S-STEM eligible disciplines, (2) student mentoring, (3) provisions and adaptation of activities that support student success, including the formation of student cohorts and other effective practices (e.g., student support services; professional and workforce development activities).

This funding opportunity further breaks down into three S-STEM tracks, in addition to a collaborative planning grant option:

Track 1 (Institutional Capacity Building)

Track 1 projects seek to increase the participation of institutions that have never had an award from the S-STEM program or the STEM Talent Expansion (STEP) program. This requirement applies to the institution as whole. One S-STEM or STEP award to any department or school within the institution makes the entire institution ineligible for a Track 1 award.

Track 1 projects must be led by a PI who is a STEM faculty member currently teaching in one of the S-STEM eligible disciplines being pursued by the targeted Scholars and who is also a member of the leadership and management team. The leadership and management team should also include a STEM administrator (department head or above). Faculty members from all departments or academic units involved should have a role in the project either as Co-PIs, senior personnel, or Scholar mentors. The project team could include, if appropriate, an institutional, educational, or social science researcher to contribute to project management and help guide responses to issues raised through formative evaluation. This additional researcher cannot take the place of the external evaluator.

Track 1 proposals may also include a focus on student transfer or progression to graduate school. In this case, if needed, two or more institutions could partner.

Track 1 proposals may request up to \$750,000 for up to 6 years.

Track 2 (Implementation: Single Institution)

Track 2 proposals have the same S-STEM goals as Track 1 proposals. They involve only one institution, but they will serve more Scholars than Track 1 proposals. Any IHE (as described under the eligibility section) can submit a Track 2 proposal, whether or not the institution has received prior S-STEM or STEP awards.

Track 2 proposals may also include a focus on student transfer or progression to graduate school. In this case, if needed, two or more institutions could partner.

Track 2 projects must be led by a PI who is a STEM faculty member currently teaching in one of the S-STEM eligible disciplines being pursued by the targeted Scholars and who is also a member of the leadership and management team. The leadership and management team should also include a STEM administrator (department head or above). Faculty members from all departments or academic units involved should have a role in the project either as Co-PIs, senior personnel, or Scholar mentors. The project team could include, if appropriate, an institutional, educational, or social science researcher to contribute to project management and support evidence-based responses to items raised by the external evaluator through formative evaluation. This additional researcher cannot take the place of the external evaluator.

Proposals for Track 2 may request up to \$1,500,000 for 6 years.

Track 3 (Inter-institutional Consortia)

Track 3 (Inter-institutional Consortia) projects support multi-institutional collaborations that focus on a common interest or problem. For example, a collaboration among community colleges and four-year institutions may focus on issues associated with successful student transfer from 2-year institutions to 4-year programs. In another example, a multi-institutional collaboration may focus on investigating factors, such as self-efficacy or identity, that contribute to the success or degree attainment of domestic, low income students. Track 3 projects have the same overall goals as Track 1 and 2 projects but seek to accomplish these goals at a very large scale by leveraging multi-institutional efforts and infrastructure. In addition to the goals stated in section II.B for all tracks, Track 3 projects are expected to:

- Establish a strong and mutually beneficial collaboration across all institutions involved in the consortia, providing equivalent benefit to all institutions in terms of number of scholarships as well as in the infrastructure established to serve low-income students;
- Adapt, implement, evaluate, and develop a research design to understand effective evidence-based curricular and co-curricular activities and professional development that are appropriate and tailored to the target population of low-income students, STEM faculty, and different types of institutional contexts;
- Establish strong technical assistance and processes that support and manage project activities across institutions involved in the collaborative effort;

Track 3 proposals may request up to \$5 million for up to 6 years.

Collaborative Planning Grants to Develop an Inter-institutional Consortium

Collaborative Planning projects provide support for groups of two or more IHEs and other potential partner organizations to establish fruitful collaborations, increase understanding of complex issues faced by low-income students at each institution, establish inter-institutional agreements when necessary and develop mechanisms for cooperation in anticipation of a future Track 3 proposal that will benefit all institutions and their Scholars as equal partners.

This category of projects aims to provide proposers from two or more institutions the funds and time to establish the relationships and agreements necessary for submitting an Inter-institutional Consortia S-STEM proposal. It is expected that proposers will be ready to write and submit this Inter-institutional Consortia proposal within 1-2 years of receiving a Collaborative Planning grant award.

Collaborative Planning Grant proposals may request up to \$150,000 for up to two years.

Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems (QulC-TAQS) NSF 21-553

Internal Deadline: February 11, 2021

Agency Deadline for Nominations: June 14, 2021

Number of Submission Allowed: 1

Agency Application Instructions: <https://www.nsf.gov/pubs/2021/nsf21553/nsf21553.htm>

Overview:

As a part of the Quantum Leap, QulC-TAQS research efforts are expected to explore highly innovative, original, and potentially transformative ideas for developing and applying quantum science, quantum computing, and quantum engineering in the specific area of quantum interconnects. In addition, these efforts will contribute to training the next generation of a highly skilled workforce. The program serves to support the process for bringing these ideas into reality.

The challenge in achieving quantum connected modules requires advancing basic principles and developing devices with controls and protocols. Proposed activities should explore new concepts involving quantum methods, algorithms, and/or materials that exploit quantum phenomena and enable novel efficient devices, circuits, and/or system architectures. The activities should be designed to accelerate fundamental understanding of the physical, chemical, biological, computational, or information-theoretic mechanisms that underlay the transfer of quantum information. To achieve these goals, a variety of approaches for generation, processing, communication with, and sensing of quantum states could be considered, including modeling, analysis, and computational simulations. Where appropriate, the proposed activities should include validation and verification through measurement, experimentation, and/or device demonstration.

Research topics of interest include all aspects of quantum interconnects. These range from quantum interconnects for modular quantum processors and computers, the quantum internet, quantum enhanced interconnected sensors and integrated quantum photonic platforms. In addition, research into quantum interconnects between various quantum systems and atomic/photonic, atomic/atomic and photonic/photonic interconnects is of interest.

Pew Biomedical Sciences

Internal Deadline: April 22, 2021

Agency Deadline for Nominations: May 17, 2021

Number of Submission Allowed: 1

Agency Application Instructions: https://www.pewtrusts.org/en/projects/pew-biomedical-scholars/program-details?utm_campaign=2021-01-12+Biomed+scholars+update&utm_medium=email&utm_source=Pew

Overview:

Eligibility for the 2022 Award

Candidates must meet all of the following eligibility requirements: Hold a doctorate in biomedical sciences, medicine, or a related field.

- As of Sept. 1, 2021, hold a full-time appointment at the rank of assistant professor. (Appointments such as research assistant professor, adjunct assistant professor, assistant professor research track, visiting professor, or instructor are not eligible).
- Must not have been appointed as an assistant professor at any institution prior to June 14, 2017, whether or not such an appointment was on a tenure track. Time spent in clinical internships, residencies, in work toward board certification, or on parental leave does not count as part of this four-year limit. Candidates who took parental leave should contact Pew's program office to ensure that application reviewers are aware of their circumstances
- Please note that eligibility criteria have been temporarily expanded to account for COVID-related lab shutdowns and research disruptions. Please direct any questions to the program office at scholarsapp@pewtrusts.org.
- May apply to the program a maximum of two times. All applicants must be nominated by their institution and must complete the 2022 online application.
- If applicants have appointments at more than one eligible nominating institution or affiliate, they may not reapply in a subsequent year from a different nominating entity.
- May not be nominated for the Pew Scholars Program and the Pew-Stewart Scholars Program for Cancer Research in the same year.

Based on their performance during their education and training, candidates should demonstrate outstanding promise as contributors in science relevant to human health. This program does not fund clinical trials research. Strong proposals will incorporate particularly creative and pioneering approaches to basic, translational, and applied biomedical research. Candidates whose work is based on biomedical principles but who bring in concepts and theories from more diverse fields are encouraged to apply.

Ideas with the potential to produce an unusually high impact are encouraged. Selection of the successful candidates will be based on a detailed description of the work that the applicant proposes to undertake, evaluations of the candidate's performance, and notable past accomplishments, including honors, awards, and publications. In evaluating the candidates, the National Advisory Committee gives considerable weight to evidence that the candidate is a successful independent investigator and has published significant work.

Funding from the NIH, other government sources, and project grants from nonprofit associations do not pose a conflict with the Pew scholars program. If you have questions concerning eligibility, please contact Kara Coleman, project director, Pew Biomedical Programs at 215-575-4925 in advance of applying.

Terms of the Award

Funding terms

An award of \$75,000 per year for four years will be provided to the sponsoring institution for use by the scholar, subject to annual review of the scholar's progress. Grant agreements will be issued in August of the award year. The awarded funds may be used at the discretion of the Pew scholar, for personnel, equipment, supplies, or travel directly related to the scholar's research and as to best advance his or her research and career. The amount of the award that may be used for the principal investigator's salary is limited to \$12,500 per year (including benefits) or \$50,000 over the duration of the grant. There are no limits on student or postdoctoral salaries.

- Not more than 8 percent (\$24,000) of the total award value may be allocated for facilities and administration (F&A) charges or indirect costs (IDCs).
- Should the funds not be immediately required, they may be accumulated and carried over through the four years of the grant period and, with written approval of the program office, the grant may receive a no-cost extension for one additional (fifth) year (without additional funds).
- Subawards are allowed.

Investigator effort

It is expected that Pew scholars will spend at least 80 percent of their time in work or activities related to the accomplishment of their overall research goals (which are not restricted to the specific aims proposed for this award). However, Pew provides flexible support to the general research aims of the scholar and does not require effort reporting.

City of Hope-UC Riverside Biomedical Research Initiative (CUBRI) Request for Applications (RFA) for Pilot Grants Supporting Innovative Collaborations in 2021

Deadline for Submission: February 12, 2021

Great advances in biomedical research are often started through unexpected collaborations. The City of Hope -UC Riverside Biomedical Research Initiative (CUBRI) is created to build such partnerships between investigators at UC Riverside and the City of Hope. Supported by a generous gift, this initiative aims to foster collaborative research by funding pilot projects of one year duration to leverage innovative ideas into improved treatments for patients. Each project requires two Principal Investigators (PIs), a tenure-track faculty member from UC Riverside and one from City of Hope, to jointly conceive, conduct and oversee the joint project at both institutions. As part of the collaboration, a project can dedicate and share graduate students or postdoctoral fellows to carry out the proposed studies. Support of up to \$100,000 per project is provided for one year with \$50,000 (minus up to 10% indirect costs) awarded to each partner at their home institution.

The City of Hope -UC Riverside Biomedical Research Initiative is being administered jointly by Lee Xu, M.D., Ph.D., Director of Program Development at City of Hope and Kathryn Uhrich, Ph.D., Dean, Professor of Chemistry, College of Natural & Agricultural Sciences UC Riverside.

Applicants should send a brief description of their project (see directions below) and include the name, title and contact information of each PI, one from UC Riverside and one from City of Hope.

Please email the application as a single pdf attachment to both Lee Xu (lihuixu@coh.org) and Kathryn Uhrich (cnasdean@ucr.edu). Applications will be reviewed and selected for funding on a competitive basis by a selection committee consisting of reviewers from both campuses.

The deadline for submission is Friday, February 12, 2021; funding will commence in March/April 2021.

Eligibility: Each PI must be a tenure-track faculty member at their home institution - UC Riverside or City of Hope - and may submit no more than one application.

Application: In order to establish consistency and fairness, all proposals must contain (only) the following elements:

1. A title page with the title of the proposal, the PI from each institution (must be tenure-track faculty), and their contact information.
2. A succinct, 2 page proposal that describes the problem to be solved, approaches for its solution that highlight the transformative nature of the proposed work, and the long-term biomedical goals of the project. Please describe what each PI will contribute to the project, and how the project requires collaboration between these two PIs and the two campuses. This part of the proposal is limited to 2 pages (using no less than single spacing and a 12point font), should include all figures, tables and other display items, but excluding any references.
3. Budget: a detailed budget is **not** required when funds are only used for personnel and supplies. The exception is when special equipment is specifically needed for the proposed project; in such cases these equipment costs must be described on a separate page and justified. Approval for purchase of equipment will be decided on an individual basis following review and selection for funding.
4. An NIH or NSF style biographical sketch for **each** PI.
5. Current and pending support for each PI using either NIH or NSF format.
6. Please **do not** include appendix material such as additional tables, figures, movies, reprints, or preprints as these will not be included in the review.

Review Criteria: In support of the goal of this initiative, reviewers will focus on the strengths and weakness of each proposal in three areas:

1. Synergy between the research strengths of the two PIs, and how complementary are these strengths for the proposed project.
2. Innovation of the proposal, and potential impact of the research concept/hypothesis.
3. Potential for the pilot project to launch an application for further funding from extramural sources such as the NIH.

This initiative, funded by a generous gift, will greatly enhance the development of key research partnerships between City of Hope and UC Riverside. We look forward to what we can achieve together for the benefit of patients facing life-threatening diseases such as diabetes and cancer.

UC National Centre for Free Speech and Civic Engagement - Call for Fellows

Deadline for Submission: March 5, 2021

The UC National Center for Free Speech and Civic Engagement explores how the fundamental democratic and academic principles of free speech and civic engagement should enrich the discovery and transmission of knowledge in America's colleges and universities. We are now accepting applications for our 2021-2022 Fellows Program.

About the Fellowship

Each year, the Center selects fellows from a broad range of disciplines and backgrounds such as law, journalism, higher education, social science, technology and government.

Fellows receive funding to further the national conversation related to expression and democratic participation on college campuses including how to advance campus dialogue and further diversity and inclusion.

The Center welcomes candidates from all backgrounds to apply. As part of the University of California, the Center is committed to promoting diversity and equal opportunity in its education, services and administration, as well as research and creative activity.

The Center invites a wide range of projects. We are especially interested in projects that will have a direct impact on individuals and communities across campus. We are focused on projects that enhance our understanding of how free speech is -- and can be practiced -- as well as how to foster civic engagement in American higher education. For more information about the work of previous fellows, [click here](#).

This is not a residential fellowship. Selected fellows will be awarded \$20,000 to support their work, and up to \$5,000 in research funds will be available as needed.

Fellows are expected to participate in two one-day colloquia with fellow award holders on a UC campus, at the UC Center in Washington, D.C. or virtually. Travel and accommodation will be covered by the Center if applicable.

Involvement and interaction with the UC community is critical to the Center's mission. Over the course of the program, Fellows will be provided access to resources and connections throughout the 10-campus UC system as befits their research. Fellows are encouraged to seek out opportunities to interact with UC students and faculty and organize or participate in campus activities directed at furthering awareness and engagement regarding speech and civic engagement.

Applications are due by Friday, March 5 at midnight. If you have questions, please feel free to contact freespeechcenter@uci.edu.

NSF Social, Behavioral and Economic Sciences - Future of Work Solicitation

Deadline for Submission: March 23, 2021

Researchers across the social, behavioral and economic sciences are encouraged to submit proposals to the [Future of Work at the Human-Technology Frontier: Core Research solicitation](#) by March 23, 2021.

“Researchers in the social, behavioral and economic sciences play an essential role in understanding and anticipating a vast array of issues that impact the effective development of future workplace activities and technologies,” says NSF Behavioral and Cognitive Sciences Division Director Marc Sebrechts, “We urge our scientific community to come together with their colleagues in other disciplines to develop research proposals that focus on understanding the future of work in ways that will benefit individuals and communities across the U.S.”

The U.S. National Science Foundation’s “Future of Work at the Human-Technology Frontier” is one of ten transformative “big ideas” supporting bold, long-term research at the frontiers of science and engineering. The effort takes a multidisciplinary approach by supporting research at the intersection of people, society and technology, while aiming to increase opportunities for workers and spur innovations that benefit the U.S. economy. It is a collaborative effort with NSF’s directorates for Computer and Information Science and Engineering, Education and Human Resources, Engineering, and the Office of Integrative Activities.

Proposals to the new solicitation should describe multidisciplinary research investigating the evolving technological, human and societal aspects of work. Researchers from the social, behavioral and economic sciences should collaborate with researchers in computer science, engineering and learning sciences to investigate the potential impacts of technological innovations and disruptions. The solicitation invites proposals for planning grants and research grants, as well as new and larger transition-to-scale awards that can create a novel and extended knowledge base applicable to future workplaces. Proposals must also address inclusion and equity in a meaningful way, including potential inequalities in future workplaces or occupations. Proposals should include methods to mitigate those inequalities, such as new approaches to learning or technologies that support accessibility and inclusion.

For full details and guidance on award types, amounts and other questions, see [Future of Work at the Human-Technology Frontier: Core Research \(FW-HTF\)](#).

NSF Understanding the Rules of Life: Microbiome Interactions and Mechanism

Deadline for Submission: February 23, 2021

Please see <https://www.grants.gov/web/grants/view-opportunity.html?oppld=330041> for details.

TheURoL:MIM program invites integrated, interdisciplinary proposals that create new knowledge in multiple disciplines to develop causal frameworks with well-designed scientific and/or computational approaches to test hypotheses about the relationships within the microbiome, and among the microbiome, the host, and the environment. Projects may develop new computational, mathematical, or experimental tools, and models, to:

- i) explain function and interactions in natural, experimental, and model microbiomes;
- ii) elucidate the

chemical and molecular mechanisms that underlie communication between the host and the microbiome and among the members of the microbiome; and/or iii) comparatively analyze characteristics of microbiomes to discover emergent properties that provide insight into the behavior of living systems.

Successful projects will contribute to a portfolio of research that identifies general principles ("rules") that underlie a wide spectrum of biological phenomena across different spatial, complexity (e.g., molecular, cellular, organismal, population), and/or temporal scales (from sub-second to geologic). URoL:MIM projects must be novel and innovative in more than one discipline (e.g., biology, chemistry, computer science, engineering, geology, mathematics, physics, social and behavioral sciences). They must also incorporate best practices regarding protocol documentation, sample selection, data collection and analysis, as well as data sharing and accessibility. URoL:MIM projects must provide workforce development and/or innovative undergraduate or graduate education opportunities that increase the pipeline for MIM in higher education and train the next generation of microbiome scientists. Projects should benefit society through engagement of the public and/or enhancement of K-12 STEM education.

URoL:MIM supports basic science research projects of different scales and scope. Projects may have a total budget of up to \$3,000,000 and an award duration of up to 5 years.

NSF Research Traineeship (NRT) Program

Deadline for Submission: February 25, 2021

Please see https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505015 for details.

The NSF Research Traineeship (NRT) program seeks proposals that explore ways for graduate students in research-based master's and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program is dedicated to effective training of STEM graduate students in high priority interdisciplinary or convergent research areas, through a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. Proposals are requested that address any interdisciplinary or convergent research theme of national priority, as noted above.

The NRT program addresses workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. The program encourages proposals that involve strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners. NRT especially welcomes proposals that include partnership with NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (INCLUDES) and leverage INCLUDES project efforts to develop STEM talent from all sectors and groups in our society (https://www.nsf.gov/news/special_reports/big_ideas/includes.jsp). Collaborations between NRT proposals and existing NSF INCLUDES projects should strengthen both NRT and INCLUDES projects.

NSF Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH)

Deadline for Submission: February 16, 2021

Please see https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504739 for details.

The purpose of this interagency collaboration between the NSF and the NIH is to support the development of transformative high-risk, high-reward advances in computer and information science, engineering, mathematics, statistics, and behavioral and/or cognitive research to address pressing questions in the biomedical and public health communities. Transformations hinge on scientific and engineering innovations by interdisciplinary teams that develop novel methods to intuitively and intelligently collect, sense, connect, analyze, and interpret data from individuals, devices, and systems to enable discovery and optimize health. Solutions to these complex biomedical or public health problems demand the formation of interdisciplinary teams that are ready to address these issues, while advancing fundamental science and engineering.

NSF Harnessing the Data Revolution (HDR): Data Science Corps (DSC)

Deadline for Submission: February 12, 2021

Please see https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505536 for details.

NSF's [Harnessing the Data Revolution \(HDR\) Big Idea](#) is a national-scale activity to enable new modes of data-driven discovery that will allow fundamental questions to be asked and answered at the frontiers of science and engineering. In 2019, the HDR Big Idea launched three parallel efforts in pursuit of these aims: Institutes for Data-Intensive Research in Science and Engineering (I-DIRSE), HDR: Transdisciplinary Research In Principles Of Data Science Phase I (HDR TRIPODS Phase I), and Data Science Corps (DSC).

The Data Science Corps is one of the components of the HDR ecosystem enabling education and workforce development by focusing on building capacity for harnessing the data revolution at the local, state, and national levels to help unleash the power of data in the service of science and society. The Data Science Corps will provide practical experiences, teach new skills, and offer learning opportunities in different settings. This solicitation prompts the community to envision creative educational pathways that will transform data science education and expand the data science talent pool by enabling the participation of undergraduate and Master's degree students with diverse backgrounds, experiences, skills, and technical maturity in the Data Science Corps. These activities are envisioned to be inherently collaborative, with a lead organization and one or more collaborating organizations.

Vice Chancellor for Research and Economic
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