



## Research and Economic Development Newsletter

September 10, 2021

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## RED Updates

### A Message from the Vice Chancellor



Dear Research Community,

While a large proportion of our research and creative activities have ramped up by now to pre-COVID levels, it is still exciting that we would soon resume a more active and across-all-areas presence on campus. I am looking forward to say hi to many of you and start interacting in person again. I encourage you to keep on maintaining the excellent level of safety we have had during the whole pandemic in the research areas and I want to thank you all one more time for being so careful, allowing in this way our scholarly work and innovation to continue to take place.

Here are some exciting announcements.

#### **The OASIS project receives \$15M**

The Opportunities to Advance Sustainability, Innovation, and Social Inclusion (OASIS) project has received \$15M from the state for the planning and preparation costs for the Clean Tech Park, the Phase I of the project. As announced during the campus forum, the park will be built along University Avenue where the UNEX building is currently located. If you missed the forum, please visit the [YouTube video](#) for further information.

#### **New record of CAREER awards**

Once again UCR has reached a record of NSF CAREER awards, with 14 of them conferred to faculty in our campus in 2021. Congratulations to the recipients of this very prestigious and career-launching award, which is designed to identify early career faculty who have a great potential to serve as academic role models and lead in the advancement of research and education in science in an integrated way. Their names and research areas can be found in the news release [Inside UCR/Awards](#).

#### **MRB update**

The third and last moving phase for our Multidisciplinary Research Building (MRB) is almost complete and we expect every current faculty who was promised space in the building to be moved by the end of the month. The MRB COVID-19 testing lab, on the other hand, will be moved from MRB to another campus location to enhance the testing capabilities, which will continue during the Fall term. Please read also the updates below from the Office of Technology Partnership to learn about a new company moving into the incubator space in the building.

As always, please take a few minutes of your time to look at the rest of the information in this newsletter.

Stay safe and continue to be creative and productive,

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## **Office of Technology Partnership Update**

### **OTP News:**

UC Riverside (UCR) has been a National Science Foundation (NSF) I-Corps site since 2017 and now, as part of a re-structuring of the program by the NSF which brings sites together in "Hubs", will transition to be part of the I-Corps Hub West Region. This move will broaden UCR's program reach to provide innovators a wider network of resources and access to more opportunities to showcase their technologies to potential funders. In addition, the I-Corps Hub West Region will study incentives as well as impediments to further develop new, world-changing technologies. [Read more](#)

The Office of Technology Partnerships has entered into a partnership with Irvine, CA, firm GotoMarketUSA to help bring technologies from Scandinavia to the United States. Since 2016 the UCR team has worked in Latin America providing innovation ecosystem development support, entrepreneurial training, startup incubation in the United States, and technology transfer consulting to governments and academic institutions in the region. Through the new partnership UCR will provide market validation support to GotoMarketUSA's clients in Scandinavia that wish to penetrate the US market. [Read more](#)

The UCR Life Sciences Incubator, located on the UCR Campus in the Multidisciplinary Research building, has welcomed its fifth tenant, Armida Labs. CEO Carlo Baggio has begun exciting new cancer drug discovery research using the incubator's \$1.2 million suite of instrumentation, supplemented by use of UCR's core facilities, such as NMR. In addition, two UCR undergraduate students have begun summer internships with incubator tenants Karamedica and NeyroblastGX. Contact David Pearson for further details: [David.Pearson@ucr.edu](mailto:David.Pearson@ucr.edu).

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## Opportunities and Events:

**[Applications open for Fall INNOVAR Workshop:](#)** Technology Partnerships invites faculty and their grad students and post-docs to participate in its 2021 Fall NSF I-Corps Site Program (INNOVAR), which runs from October 12 - November 23. Participants receive up to \$8000 for customer discovery and prototyping. The INNOVAR Program teaches funded researchers the entrepreneurial skills necessary to identify market opportunities for the discoveries that emerge from their research. **[Apply here before Oct. 1!](#)** [Register for our information session on September 29](#) at 12pm or contact Jay Gilberg, Lead Instructor, for further details: [Jay.Gilberg@ucr.edu](mailto:Jay.Gilberg@ucr.edu).

**[Applications are now open for startups:](#)** The Riverside Angel Summit is an opportunity for startups who have raised less than \$750,000 in capital to secure up to a \$125,000 seed investment from our own local investors. Entrepreneurs will learn valuable skills in fundraising and pitch against other startups in the region. Deadline to apply is September 10; the final Summit event is planned for November 4. Contact Scott Brovsky for more information: [Scott.Brovsky@ucr.edu](mailto:Scott.Brovsky@ucr.edu)

**[Attend Part 3 of our Multi-dimensional Data series:](#)** “Competing via the Four Dimensions of Data Ethics” on September 22 at 12pm via Zoom. In today's landscape of data monopolies and data intrusions, how can companies large and small build sustainable business models directly founded on data ethics? And how can all of us as innovators, consumers and citizens stay attuned to the risks within data so that we may chart a clear course in both privacy and ethics? Shomit Ghose, Data Analytics Advisor to the Office of Technology Partnerships, will challenge business leaders' thinking about the foundation for success. [Register here!](#)

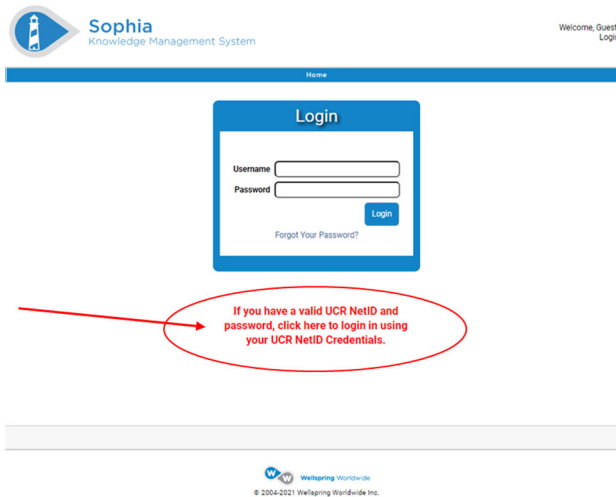
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## Sophia Inventor Portal

Reminder to all UCR inventors! The Office of Technology Partnerships has launched an inventor portal called [Sophia](#) that allows you to log-in and easily check the status of your invention disclosures and patent filings in real time. This will provide greater transparency and insight to your UCR intellectual property portfolio. You will also have the ability to run an “Invention Report” and “Patent Application Report” then export to a spreadsheet for grant proposals, personnel file for merit reviews, CVs, etc.

Please bookmark this website: <https://ucr.wellspringsoftware.net>

Click on the “Login Using UCR NetID and Password” link **under** the Login box (shown below). This will take you to the UCR multi-factor authentication page and enter your UCR NetID and password, as you normally do to gain access to other UCR sites.



For any questions or trouble logging in, please contact Brian Suh, Director, Technology Commercialization, [brian.suh@ucr.edu](mailto:brian.suh@ucr.edu).

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## Sponsored Programs Update

### Fall 2021 NIH Virtual Seminar on Program Funding and Grants Administration

**Upcoming: Save the Date November 1-4, 2021: Fall 2021 NIH Virtual Seminar on Program Funding and Grants Administration (NIH)** *If you are an administrator, researcher, early-stage investigator, graduate student, or anyone new to working with the NIH grants process, then this seminar is designed specifically for you. More experienced? Attend our policy updates and check out our case study series.* <https://grants.nih.gov/2021-nih-virtual-seminar.htm>

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### NIH Extramural NEXUS

**Goodbye FORMS-F, Hello FORMS-G (NIH Extramural Nexus)** *Applicants applying to NIH funding opportunities with due dates on or after January 25, 2022 must use updated application forms and instructions identified with a Competition ID of "FORMS-G."* <https://nexus.od.nih.gov/all/2021/09/01/goodbye-forms-f-hello-forms-g/>

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### Export Control Awareness Training

In collaboration with Systemwide Export Control, UCR's Export Control Office is delighted to announce the launch of a new on-line training module as part of its local Export Compliance Program Plan (ECP), covering the following topics:

- Overview | Understand export control basics
- Research | Recognize what is covered under Fundamental Research Exclusion

- Risks | Identify export control risks related to your work
- International Shipping
- Biological Agents | What is and is not controlled
- International Traffic in Arms Regulations (ITAR)
- Office of Foreign Assets Control (OFAC)
- Traveling Abroad

All UCR faculty, staff and students are encouraged to review the training module to remain informed on how U.S. export controls can affect university activities.

To access the new on-line training module, please log in to the Learning Management System (LMS) using the Single Sign-On (SSO) option at the following link: [EXPORT CONTROL](#)

Should you have any questions please contact the Export Control Office at [exportcontrol@ucr.edu](mailto:exportcontrol@ucr.edu).

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## Research Administrators INC

Please join Research Administrators INC on **Monday, September 13<sup>th</sup> at Noon** as we continue this academic year to walk through the life cycle of an award series, beginning with Part 1 of a 2-part series on **Award Monitoring / Award Management**. (Please note that each part is 2 hours in length.)

These two sessions will: (i) focus on award management strategies and techniques for both the central and departmental research administrators tasked with financial oversight of sponsored awards; (ii) focus on what to look for during award initiation and award closeout; and (iii) discuss strategies for how the research administrator can best support the PI during the period of performance to maximize award spending, while effectively managing risk. Furthermore, in this 2-part session will review some perennial hot topics such as cost transfers, subaward monitoring, cost sharing, and effective and efficient award closeouts.

### Learning objectives:

- Participants will learn techniques for identifying higher risk awards and transactions and what documentation to put in place to support these costs (or when to transfer them off of the award) as well as an awareness of when to ask more questions.
- Participants will also be introduced to proactive award management strategies that, if applied during the life of the award, will support an efficient and timely closeout.

To receive the ZOOM link to this meeting, **please register [here](#)**

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## Life Cycle of the Award Series

RA-INC will be going through this entire Life Cycle of the Award Series together; however, those wishing to view the series at their own pace, or those wishing to jump to a particular topic of interest, are able to do so now at their convenience via the new SPA training portal located at <https://research.ucr.edu/spa/training>.

(A UCR NetID is required.)

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## Roman Space Telescope Early-Definition Astrophysics Survey

The Roman Project is seeking community input on the option to pre-select one Astrophysics Survey nominally to be executed within the first two years of the Nancy Grace Roman Space Telescope mission, and using up to ~700 hours of wall clock time. This would be in addition to the Core Community Surveys already being planned for the mission, and would be part of the overall time set aside for Astrophysics Surveys. The survey and the investigations it enables must be scientifically compelling, and be significantly enhanced by specific preparatory activities that are enabled by early selection and definition.

For full details on this Request for Information, please visit the webpage:

[https://roman.gsfc.nasa.gov/science/Early-definition\\_Astrophysics\\_Survey\\_Option.html](https://roman.gsfc.nasa.gov/science/Early-definition_Astrophysics_Survey_Option.html)

That page provides context on the Roman mission, criteria for this particular survey option, submission instructions with an accompanying response template, and links to further information about the Roman mission, its science opportunities, and technical background information.

Opinions and survey concepts for consideration are solicited by October 22, 2021, 8PM EDT, and should be submitted via email to [roman-wp-submission@bigbang.gsfc.nasa.gov](mailto:roman-wp-submission@bigbang.gsfc.nasa.gov).

For specific questions related to a submission, email both [help@stsci.edu](mailto:help@stsci.edu) and [roman-help@ipac.caltech.edu](mailto:roman-help@ipac.caltech.edu), with subject line: "Roman Early-Definition Astrophysics Survey question".

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## NSF News

### NSF Proposal and Award Policy Update

The National Science Foundation (NSF) is pleased to announce that it will offer an **NSF Proposal and Award Policy Update Webinar** to the research community on **Tuesday, September 21, 2021 from 2:00 – 3:00pm EST (11:00am – Noon PST)**. There is no cost to participate.

The Webinar will provide an overview of significant changes and clarifications to the PAPPG that will take effect on October 4, 2021. The PAPPG Webinar details NSF's proposal preparation and submission guidelines and provides guidance on managing and monitoring the award and administration of grants and cooperative agreements made by the Foundation.

**Registration is Now Open!** Please visit <https://nspfolicyoutreach.com/21-pappg/> to register for the Zoom Webinar.

For questions prior to the webinar, please contact us at [grants\\_conference@nsf.gov](mailto:grants_conference@nsf.gov).

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### 2021 NSF Virtual Grants Conference

**Join the National Science Foundation (NSF) for the Fall 2021 NSF Virtual Grants Conference October 4-8, 2021:** Registration will be free of charge and opens on Wednesday, Sept 8 at 12 pm ET. For those who cannot attend the live conference, all recorded conference sessions will be available on-demand shortly after the event and posted on the NSF [website](#) and [YouTube](#) page. [READ MORE](#)

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### NSF Website Enhancements

The National Science Foundation (NSF) has enabled a number of enhancements for proposals submitted in [Research.gov](#), [FastLane](#), and [Grants.gov](#). In addition, the updated NSF-approved biographical sketch and current and pending support SciENCv and fillable PDF formats that fall under the revised *Proposal & Award Policies & Procedures Guide* (PAPPG) ([NSF 22-1](#)) will be available to preview by September 17, 2021.

We are also excited to announce enhanced NSF [Funding Opportunity Search](#) functionality and revamped program pages on [nsf.gov](#) and [beta.nsf.gov](#), the new version of the NSF website. As NSF builds its new [nsf.gov](#) website in small, iterative pieces using the [beta.nsf.gov](#) platform, we are not simply moving existing

content from [nsf.gov](https://www.nsf.gov) to the new site. Rather, the new website will improve how information is presented for use by various audiences including prospective proposers, grantees, and the general public. Here's what to know.

### **[Research.gov](https://www.research.gov) Proposal Submission System Enhancements**

- [Research.gov](https://www.research.gov) proposal features continue to expand to support the transition of all proposal preparation and submission functionality from FastLane to [Research.gov](https://www.research.gov) by a target date of December 31, 2022. Many NSF funding opportunities are supported in [Research.gov](https://www.research.gov) and clearly specify whether submission via [Research.gov](https://www.research.gov) is available or required.
- Effective August 30, 2021, Conference and Ideas Lab proposal types, renewal and accomplishment-based renewal submission types, and preliminary proposals for Ideas Lab solicitations are all now available for submission in [Research.gov](https://www.research.gov). FastLane must be used to submit preliminary proposals for proposal types other than Ideas Lab until that functionality is available in [Research.gov](https://www.research.gov).
- The proposal preparation landing page has been revised, and Principal Investigators will now first select the proposal submission type from the drop-down options and then will follow the proposal setup wizard to initiate a new proposal. In progress and submitted proposals are accessible from the files on the revised proposal preparation landing page, after first selecting the submission type from the drop-down options.
- New automated compliance checks and associated error and warning messages for the enabled proposal and submission types were also implemented. Error messages will prohibit proposal submission to NSF, whereas warning messages still permit proposal submission.
- New Frequently Asked Questions (FAQs) were added to the [Research.gov](https://www.research.gov) [About Proposal Preparation and Submission](#) page, and the [Proposal Submission Capabilities](#) page has been updated to reflect the latest development updates.
- All supported proposal and submission types as well as associated compliance checks are also enabled in the [Research.gov](https://www.research.gov) Proposal Preparation Demo Site.
- Refer to the PAPPG ([NSF 20-1](#)) for current proposal requirements. Guidelines in the revised PAPPG ([NSF 22-1](#)) will apply for proposals submitted or due on or after October 4, 2021.

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## **NSF-approved Biographical Sketch and Current and Pending Support Format Updates**

### *Current and Pending Support Fillable PDF Updates*

- Based on feedback from the research community and NSF Program Officers, NSF has incorporated functionality as of August 30, 2021, in FastLane and [Grants.gov](https://www.grants.gov) to remove any pages which do not contain data entered by users (i.e., blank pages) from the NSF-approved current and pending support fillable PDF. This trimming functionality will be integrated in [Research.gov](https://www.research.gov) on October 4, 2021, in coordination with implementation of the revised PAPPG ([NSF 22-1](#)) for proposals submitted in [Research.gov](https://www.research.gov) and project reports submitted in the [Research.gov](https://www.research.gov) Project Reporting System.
- The trimming service only applies to the NSF-approved current and pending support fillable PDF and not to any other uploaded PDFs. Current and pending support PDFs generated in SciENCv do not include blank pages.
- The current and pending support fillable PDF document is paginated, and the PDF page numbers will not be updated during the trimming process. This means that it is possible for the trimmed PDF to have skipped page numbers corresponding to the blank pages removed from the fillable PDF. NSF Program Officers are aware of this potential occurrence in proposals submitted to NSF.
- Proposers with in progress proposals as of August 30, 2021, can delete previously uploaded current and pending support fillable PDFs from their FastLane or [Grants.gov](https://www.grants.gov) proposals and then re-upload them to trigger the trimming service.

### *Updated Biographical Sketch and Current and Pending Support SciENCv and Fillable PDF Formats*

- The updated NSF-approved biographical sketch and current and pending support formats will be available in September 2021 to preview before they are required on October 4<sup>th</sup>. The updated fillable

PDF formats will be available for download from the NSF [biographical sketch](#) and [current and pending support](#) websites by September 3<sup>rd</sup>. Updated SciENCv formats will be available on the SciENCv Create a New Document screen by September 17<sup>th</sup>.

- Biographical sketch format updates include increasing the page limit from two to three pages.
- Current and pending support format updates include the addition of new sections for information on objectives and overlap with other projects to help NSF and reviewers assess overlap/duplication.
- Although submission of the updated NSF-approved formats is not permitted (i.e., [Research.gov](#), [FastLane](#), and [Grants.gov](#) will not allow the 22-1 forms to be uploaded) until implementation of the revised PAPPG ([NSF 22-1](#)) on October 4, 2021, NSF is encouraging proposers and grantees to begin familiarizing themselves with the updated NSF-approved formats when they are available.

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## Enhanced Funding Opportunity Search Functionality and Revamped Program Pages

Based on extensive research with external and internal stakeholders, NSF has made significant improvements to the NSF [Funding Opportunity Search](#) functionality to help researchers and prospective researchers quickly and easily find relevant programs and NSF-funded projects in specified disciplines. Funding Search results now include short program descriptions, programs incorporated in core program solicitations with links to the relevant guidelines, and Dear Colleague Letters.

The revamped program pages include significant content and navigation improvements including information previously only viewable in solicitations.

For more information about NSF's beta site, please visit <https://beta.nsf.gov/about-beta>. NSF will continue to enhance the site, and ongoing feedback from external and internal stakeholders is vital to the process. Feedback on the updated Funding Search and program page enhancements or any other aspect of the site may be directed to [beta-nsf-feedback@nsf.gov](mailto:beta-nsf-feedback@nsf.gov).

**Questions?** If you have IT system-related questions, please contact the NSF Help Desk at 1-800-381-1532 (7:00 AM - 9:00 PM ET; Monday - Friday except federal holidays) or to [rgov@nsf.gov](mailto:rgov@nsf.gov). Policy-related questions should be directed to [policy@nsf.gov](mailto:policy@nsf.gov)

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## Other Announcements

### United States Army Small Business Technology Transfer (STTR) Proposal Process 2021

The [Army Small Business Technology Transfer \(STTR\) Program](#) will be utilizing a new website to support its participation in the DoD 21.C BAA. The site will include topics prior to their official pre-release on 25 August and facilitate networking between partners. The website will go live the first week in August.

Partnered with Army Research Laboratory Partnership Intermediary, the [Virginia Tech Applied Research Corporation \(VT-ARC\)](#) will host virtual informational and networking events leading up to the 21.C solicitation proposal due date of 21 October. Two informational and networking webinars will be held in August, followed by a virtual STTR "Industry Day" in the first week of September that will allow you to speak directly with topic authors and learn more about the program opportunity.

To keep up to date with all the most recent information, and to share with your networks, follow the [Army SBIR/STTR program](#) and [VT-ARC](#) on LinkedIn!



# Funding Opportunities

## Funding Opportunities

### Over 20 funding opportunities available for joint social, behavioral and computer science research

The U.S. National Science Foundation supports innovative multidisciplinary research at the intersection of many fields including those in the social, behavioral and economic sciences and the computer and information sciences. To help researchers find and participate in the many collaborative funding opportunities available, NSF is providing a single publication listing all recent programs jointly supported by the Directorate for Computer and Information Science and Engineering (CISE) and the Directorate for Social, Behavioral and Economic Sciences (SBE).

Researchers are encouraged to review the listed programs and contact the relevant program directors with any questions.

[Read the full list of collaborative CISE/SBE opportunities](#)

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### Predicting and preventing pandemics is the focus of a new NSF funding opportunity

The Predictive Intelligence for Pandemic Prevention initiative is aimed at better understanding the dynamic nature of pathogen and disease emergence. Researchers from a broad range of scientific disciplines — including those in the social, behavioral and economic sciences — are invited to submit proposals to develop multidisciplinary research centers that can address the complex challenges involved in forecasting and avoiding future pandemic-scale outbreaks.

[Read the full announcement](#)

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### 2022 Nierenberg Prize for Science in the Public Interest

The Nierenberg Prize Committee is seeking nominations for the [2022 Nierenberg Prize for Science in the Public Interest](#). The Nierenberg Prize for Science in the Public Interest was created in 2001 through a gift from the Nierenberg family to honor the memory of William A. Nierenberg, (1919-2000), a renowned national science leader who served as director of Scripps Institution of Oceanography at the University of California San Diego from 1965 to 1986. The Nierenberg Prize is awarded annually by Scripps Institution of Oceanography for outstanding contributions to science in the public interest and includes a bronze medal and \$25,000. Awardees are chosen by a Prize Committee. Recipients have included biologist E.O. Wilson, nature documentary maker Sir David Attenborough, newscaster Walter Cronkite, primatologist Jane Goodall, filmmaker James Cameron, and astrophysicist Lord Martin Rees, among others. William A. Nierenberg was a national leader in ocean research and low-energy nuclear physics and served on numerous committees of the Department of Defense, NOAA, Department of Energy and the National Academy of Sciences. He was elected to the National Academy of Sciences in 1971 and was the recipient of the 1987 Delmer S. Fahrney Medal for outstanding leadership in science, as well as numerous other awards and honors for professional research and public service.

We ask that you please send any nominations to [nierenbergprize@ucsd.edu](mailto:nierenbergprize@ucsd.edu) no later than **Friday, September 24, 2021**. Eligibility and nomination procedures are included below.

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## 2021-2022 STEM Solutions in Public Policy Award

UC Center Sacramento is pleased to announce the **2021-2022 STEM Solutions in Public Policy Award**. This award will recognize one or more outstanding proposals for new California legislation from **UC STEM graduate students**. The winner(s) will receive \$1,000 for research support and -- should their bill advance through the legislative process -- travel expenses covering a trip to Sacramento to convene with Legislators and/or legislative staff.

**Submissions will be accepted until midnight Pacific time on October 22<sup>nd</sup>, 2021 and applicants will be notified of their status in December 2021.** Further information is available at [UCCS STEM Solutions](https://uccs.ucdavis.edu) or on the UCCS website ([uccs.ucdavis.edu](https://uccs.ucdavis.edu)).

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## NSF-Simons Collaboration on a National Institute for Theory and Mathematics in Biology (NITMB)

Preliminary Proposal Target Date: December 1, 2021  
Full Proposal Target Date: July 18, 2022

The purpose the NITMB program is to support a research institute to facilitate innovative research at the intersection of mathematical and biological sciences. The institute should promote interdisciplinary education and workforce training between these two disciplines. Research activities conducted at the institute should be focused on emerging and important topics at the interface of the mathematical and biological sciences, with the expectation to develop new mathematical methodologies inspired by biological problems. The institute should primarily focus on advances in theory and mathematics that are motivated by and applicable to the analysis of complex biological systems. The institute will conduct interdisciplinary education and training through research involvement of doctoral degree recipients and graduate students from across this multi-disciplinary spectrum. The institute is also expected to conduct convening activities, including short-term and/or long-term visitor programs, workshops, and/or outreach activities. Diversity, equity, inclusion, and accessibility are expected to be core values of the institute and should be reflected in its research, education, outreach programs, and its leadership. The institute is expected to serve as a national resource that aims to advance research in the mathematical and biological sciences through programs supporting discovery and knowledge dissemination in mathematical biology and enhancing connections to related fields.

For full details: [https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505913](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505913)

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## 2021 Alan T. Waterman Award

The Alan T. Waterman Award is the highest honor awarded by the National Science Foundation (NSF). In 1975, Congress established the award in honor of the agency's first director to recognize outstanding young researchers in any field of science or engineering supported by the National Science Foundation. In addition to a medal, each awardee receives a grant of \$1,000,000 over five years for science or engineering research or advanced study at the institution of the recipient's choice.

Nominees are accepted in any field of science or engineering that the NSF supports. Nominations are being accepted now through September 20, 2021. The nominations and letters must be received through the FastLane system. To submit a nomination, please visit: <https://www.fastlane.nsf.gov/honawards>.

You may also visit [www.nsf.gov/waterman](https://www.nsf.gov/waterman) for more information, including a Webinar that covers submitting nominations and a presentation on Tips for Submitting a Strong nomination.

If you have additional questions, you may contact the Program Manager for the Alan T. Waterman Award at [waterman@nsf.gov](mailto:waterman@nsf.gov).

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## NSF Graduate Research Fellowship Program

The GRFP supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based master's and doctoral degrees at accredited United States institutions. The program provides up to three years of graduate education support, including an **annual \$34,000 stipend**. Applications for Mathematical Sciences topics are **due October 22, 2021**. US citizens and permanent residents who are planning to enter graduate school in fall 2022 are eligible (as are those in the first two years of such a graduate program, or who are returning to graduate school after being out for two or more years). The program solicitation NSF 21-602 ([http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=6201](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201)) contains full details. See also the GRFP FAQ document NSF 21-109 (<https://www.nsf.gov/pubs/2021/nsf21109/nsf21109.pdf>).

The GRFP awards more than 1,500 new fellowships each year. In the years 2013 through 2021, GRFP awards in the mathematical sciences have been given to more than 760 students who earned baccalaureate degrees from approximately 200 colleges and universities throughout the US. The number of baccalaureate institutions has been growing through the years.

The GRFP also needs qualified faculty reviewers. Review panels are conducted by videoconference. Please see the reviewer information page (<https://www.nsfgrfp.org/reviewers>) and consider registering as a prospective reviewer (<https://nsfgrfpreviewers.org/newUser.jsp>).

Interested students should begin at the applicant information page <http://www.nsfgrfp.org>

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## Quarterly overview of the BSF and NSF-BSF programs

BSF is pleased to announce the resumption of the Prof. Rahamimoff Travel Grants for graduate students that are in an advanced stage of their PhD research. Submission of proposals through institutional research authorities is required. Deadline for submission at the BSF office is **December 8, 2021**. The Call for Proposals can be found [here](#).

We also would like to draw your attention to a couple of points.

- US PIs should pay particular attention to the NSF requirement that collaborative proposals with Israeli PI(s) are identified as such by adding the prefix NSF-BSF: to the research title on the cover page.
- After submission of an NSF-BSF proposal, US PIs are advised to remind their Israeli collaborators of the requirement to submit the same proposal with Israeli budget details to BSF within one week of the NSF submission.
- Submissions to the NSF-BSF program require that the Israeli PI submit the NSF-BSF proposal using the BSF on line system. In the event that the NSF-BSF proposal exceeds 3MB and therefore fails to upload to the website, please send the file to Ms. Yael Dressler ([yael@bsf.org.il](mailto:yael@bsf.org.il)) who will route your proposal internally.
- In parallel to NSF requirements, BSF now solicits abstracts for a general audience from Israeli PIs who have been awarded an NSF-BSF grant. We request that PIs convert their proposal abstract to a general abstract by the time they negotiate their amended budget with the BSF office Please be aware of this new requirement and make sure to send it to Ms. Yael Dressler ([yael@bsf.org.il](mailto:yael@bsf.org.il)).
- Starting October 15<sup>th</sup>, all of the Materials programs will be open to receive submission throughout the year. Investigators are advised that the dates from April 15th to June 15th should, optimally, be avoided for submissions.

The guidelines for proposal preparation for BSF and NSF-BSF programs are slightly different. Please check our regulations for both BSF regular grants and for NSF-BSF grants on our website:

<https://www.bsf.org.il/funding-opportunities/>

- BSF Regular Research Grants Program (life and health sciences). Deadline for applications is **November 17, 2021**. The website is now open for submission. The regulations for proposal submission under this program are found [here](#).

These following NSF-BSF programs have deadlines as specified:

Directorate of Mathematical and Physical Sciences:

- NSF-BSF program in Mathematical Biology. Deadline for application by the U.S. partner to the NSF is September 6, 2021 and by the Israeli partner to the BSF is September 12, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Probability. Deadline for application by the U.S. partner to the NSF is September 27, 2021 and by the Israeli partner to the BSF is October 3, 2021. Call for Proposals can be found [here](#).
- NSF-BSF programs in Combinatorics; Foundations. Deadline for application by the U.S. partner to the NSF is September 28, 2021 and by the Israeli partner to the BSF is October 4, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Analysis. Deadline for application by the U.S. partner to the NSF is September 30, 2021 and by the Israeli partner to the BSF is October 6, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Algebra and Number Theory. Deadline for application by the U.S. partner to the NSF is October 8, 2021 and by the Israeli partner to the BSF is October 15, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Geometric Analysis; Topology. Deadline for application by the U.S. partner to the NSF is November 2, 2021 and by the Israeli partner to the BSF is November 8, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Basic Plasma Sciences and Engineering. Deadline for application by the U.S. partner to the NSF is November 15, 2021 and by the Israeli partner to the BSF is November 21, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Applied Mathematics. Deadline for application by the U.S. partner to the NSF is November 15, 2021 and by the Israeli partner to the BSF is November 23, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Astronomy and Astrophysics. Deadline for application by the U.S. partner to the NSF is November 15, 2021 and by the Israeli partner to the BSF is November 21, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Atomic Molecular and Optical Physics – Experiment and Theory; Gravitational Physics – Experiment and Theory; Integrative Activities in Physics; LIGO Research Support. Deadline for application by the U.S. partner to the NSF is November 24, 2021 and by the Israeli partner to the BSF is November 30, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Nuclear Physics – Experiment and Theory; Elementary Particle Physics – Experiment; Particle Astrophysics – Experiment. Deadline for application by the U.S. partner to the NSF is December 7, 2021 and by the Israeli partner to the BSF is December 13, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Computational Mathematics. Deadline for application by the U.S. partner to the NSF is December 1, 2021 and by the Israeli partner to the BSF is December 7, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Elementary Particle Physics – Theory; Particle Astrophysics and Cosmology – Theory; Quantum Information Science; Physics of Living Systems. Deadline for application by the U.S. partner to the NSF is December 14, 2021 and by the Israeli partner to the BSF is December 20, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Statistics. Deadline for application by the U.S. partner to the NSF is December 15, 2021 and by the Israeli partner to the BSF is December 21, 2021. Call for Proposals can be found [here](#).

Directorate of Computer Science:

- NSF-BSF programs in Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH). Deadline for application by the U.S. partner to the NSF is November 10, 2021 and by the Israeli partner to the BSF is November 16, 2021. Call for Proposals can be found [here](#).
- NSF-BSF programs in Computational Neuroscience (CRCNS). Deadline for application by the U.S. partner to the NSF is November 23, 2021 and by the Israeli partner to the BSF is November 29, 2021. Call for Proposals can be found [here](#).

Directorate of Geosciences:

- NSF-BSF programs in Physical Oceanography; Chemical Oceanography. Deadline for applications by the U.S. partner to the NSF is February 15, 2022 and by the Israeli Partner to the BSF is February 21, 2022. Call for proposals can be found [here](#).

Directorate of Biological Sciences:

- NSF-BSF program in Ecology and Evolution of Infectious Diseases. Deadline for application by the U.S. partner to the NSF is November 24, 2021 and by the Israeli partner to the BSF is November 30, 2021. Call for Proposals can be found [here](#).
- NSF-BSF program in Integrative Strategies for Understanding Neural and Cognitive Systems. Deadline for application by the U.S. partner to the NSF is February 14, 2022 and by the Israeli partner to the BSF is February 20, 2022. Call for Proposals can be found [here](#).
- NSF-BSF program in Enabling Discovery through Genomics (IOS=EDGE). Deadline for application by the U.S. partner to the NSF is February 17, 2022 and by the Israeli partner to the BSF is February 23, 2022. Call for Proposals can be found [here](#).

Directorate of Social, Behavioral and Economics Sciences:

- NSF-BSF programs in Social Psychology. Deadline for applications by the U.S. partner to the NSF is January 17, 2022 and by the Israeli Partner to the BSF is January 23, 2022. Call for proposals can be found [here](#).
- NSF-BSF programs in Developmental Sciences. Deadline for applications by the U.S. partner to the NSF is January 17, 2022 and by the Israeli Partner to the BSF is January 23, 2022. Call for proposals can be found [here](#).
- NSF-BSF programs in Economics and Decision Sciences. Deadline for applications by the U.S. partner to the NSF is January 18, 2022 and by the Israeli Partner to the BSF is January 24, 2022. Call for proposals can be found [here](#).
- NSF-BSF programs in Science of Learning and Augmented Intelligence Program. Deadline for applications by the U.S. partner to the NSF is January 19, 2022 and by the Israeli Partner to the BSF is January 25, 2022. Call for proposals can be found [here](#).
- NSF-BSF programs in Perception, Action and Cognition. Deadline for applications by the U.S. partner to the NSF is February 1, 2022 and by the Israeli Partner to the BSF is February 7, 2022. Call for proposals can be found [here](#).
- NSF-BSF programs in Cognitive Neuroscience. Deadline for applications by the U.S. partner to the NSF is February 11, 2022 and by the Israeli Partner to the BSF is February 17, 2022. Call for proposals can be found [here](#).

The following NSF-BSF programs have no deadlines and are open for submission throughout the year:

- NSF-BSF programs in Computing and Communication Foundations (CCF) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Computer and Network Systems (CNS) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Information and Intelligent Systems (IIS) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Chemical, Bioengineering, Environmental, and Transport Systems are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Materials are open to receive applications anytime throughout the year, starting October 15<sup>th</sup>. Call for Proposals can be found [here](#).
- NSF-BSF program in Electrical, Communications and Cyber Systems is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).

- NSF-BSF program in the Civil, Mechanical and Manufacturing Innovation (CMMI) division is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Earth Sciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Atmospheric and Geospace Sciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Cyber Security is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Marine Geology and Geophysics is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Biological Oceanography is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Molecular and Cellular Biosciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Integrative Organismal Systems (IOS) is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Environmental Biology (DEB) is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#)