

Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

PROGRAM SOLICITATION NSF 21-591

REPLACES DOCUMENT(S): NSF 20-593



National Science Foundation

Directorate for Computer and Information Science and Engineering
Division of Computing and Communication Foundations
Division of Computer and Network Systems
Division of Information and Intelligent Systems
Office of Advanced Cyberinfrastructure

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):

September 20, 2021

Third Monday in September, Annually Thereafter

IMPORTANT INFORMATION AND REVISION NOTES

This is a revision of [NSF 20-593](#), the solicitation for the CISE Research Initiation Initiative (CRII). The program solicitation has been revised as follows:

- The submission deadline has been revised.
- The limit of submission to no more than 5 years after receipt of PhD has been extended to 6 years for proposals submitted in 2021 only.
- Use of the department chair letter has been clarified.
- Requirements for individuals submitting under the Research in Undergraduate Institutions program are clarified.
- Proposals may now optionally include requests for cloud computing resources through an external cloud access entity supported by NSF's Enabling Access to Cloud Computing Resources for CISE Research and Education (Cloud Access) Program.

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) ([NSF 20-1](#)), which is effective for proposals submitted, or due, on or after June 1, 2020.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

Synopsis of Program:

The NSF Directorate for Computer and Information Science and Engineering (CISE) seeks to award grants intended to support research independence among early-career academicians who specifically lack access to adequate organizational or other resources. It is expected that funds obtained through this program will be used to support untenured faculty or research scientists (or equivalent) in their first three years in a primary academic position after the PhD, but not more than six years after completion of their PhD for proposals submitted in 2021, and not more than five years after completion of their PhD for proposals submitted after 2021. Applicants for this program may not yet have received any other grants or contracts in the PI role from any department, agency, or institution of the federal government, including from the CAREER program or any other program, post-PhD, regardless of the size of the grant or contract, with certain exceptions as noted below. Serving as co-PI, Senior Personnel, Postdoctoral Fellow, or other Fellow does not count against this eligibility rule.

Importantly, the CRII program seeks to provide essential resources to enable early-career PIs to launch their research careers. For the purposes of this program, CISE defines "essential resources" as sufficient funds for 48 months of graduate student support. Faculty at undergraduate and two-year institutions may use funds to support undergraduate students, and may optionally use the additional RUI designation (which requires inclusion of a RUI Certification and RUI Impact Statement) -- see https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518 for additional information. In addition, submissions from all institutions may use funds for PI salary, postdoctoral scholars, travel, and/or research equipment.

Cognizant Program Officer(s):

Please note that the following information is current at the time of publishing. See program website for any updates to the points of contact.

- Jeremy J. Epstein, telephone: (703) 292-8338, email: jepstein@nsf.gov
- Ephraim P. Glinert, Program Director, IIS, telephone: (703) 292-8930, email: eglinert@nsf.gov
- Almadena Y. Chtchelkanova, Program Director, CCF, telephone: (703) 292-8910, email: achtchel@nsf.gov
- Jeremy J. Epstein, Program Director, CNS, telephone: (703) 292-8338, email: jepstein@nsf.gov
- Alan Sussman, Program Director, OAC, telephone: (703) 292-7563, email: alasussm@nsf.gov

Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):

- 47.070 --- Computer and Information Science and Engineering

Award Information

Anticipated Type of Award: Standard Grant

Estimated Number of Awards: 55 to 60

CISE expects to make 55 to 60 awards each year.

Anticipated Funding Amount: \$10,000,000

CISE expects the total funding to be up to \$10,000,000 each year, subject to the availability of funds.

Each award will be up to \$175,000 for a period of 24 months.

Eligibility Information

Who May Submit Proposals:

Proposals may only be submitted by the following:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Special Instructions for International Branch Campuses of US IHEs: If the proposal includes funding to be provided to an international branch campus of a US institution of higher education (including through use of subawards and consultant arrangements), the proposer must explain the benefit(s) to the project of performance at the international branch campus, and justify why the project activities cannot be performed at the US campus.
- Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.

Who May Serve as PI:

Only one principal investigator per proposal is allowed; co-principal investigators and senior personnel are not permitted. Please see Additional Eligibility Information below for more information on who is eligible.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or co-PI:

A PI may submit one proposal per annual competition.

In addition, a Principal Investigator may not participate in more than two CRII competitions. Proposals that are not reviewed (i.e., are withdrawn before review or are returned without review) do not count toward the two-competition limit.

The PI may **not** submit a CRII proposal in the same calendar year in which he/she submits a CAREER proposal. A CRII proposal submitted in the same calendar year as a CAREER proposal by the same PI will be returned without review.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- **Letters of Intent:** Not required
- **Preliminary Proposal Submission:** Not required
- **Full Proposals:**
 - Full Proposals submitted via FastLane: *NSF Proposal and Award Policies and Procedures Guide* (PAPPG) guidelines apply. The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg.
 - Full Proposals submitted via Research.gov: *NSF Proposal and Award Policies and Procedures Guide* (PAPPG) guidelines apply. The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg.
 - Full Proposals submitted via Grants.gov: *NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications*

via *Grants.gov* guidelines apply (Note: The *NSF Grants.gov Application Guide* is available on the Grants.gov website and on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide).

B. Budgetary Information

- **Cost Sharing Requirements:**

Inclusion of voluntary committed cost sharing is prohibited.

- **Indirect Cost (F&A) Limitations:**

Not Applicable

- **Other Budgetary Limitations:**

Other budgetary limitations apply. Please see the full text of this solicitation for further information.

C. Due Dates

- **Full Proposal Deadline(s)** (due by 5 p.m. submitter's local time):

September 20, 2021

Third Monday in September, Annually Thereafter

Proposal Review Information Criteria

Merit Review Criteria:

National Science Board approved criteria. Additional merit review criteria apply. Please see the full text of this solicitation for further information.

Award Administration Information

Award Conditions:

Standard NSF award conditions apply.

Reporting Requirements:

Standard NSF reporting requirements apply.

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I. INTRODUCTION

CISE's mission is to promote the progress of computer and information science and engineering research and education, and advance the development and use of research cyberinfrastructure across the science and engineering enterprise; to promote understanding of the principles and uses of advanced computer,

communications, and information systems in service to society; and to contribute to universal, transparent, and affordable participation in an information-based society. CISE supports ambitious long-term research and research infrastructure projects across the many sub-fields of computing as well as cyberinfrastructure for all areas of science and engineering; contributes to the education and training of all computing professionals; and more broadly informs the preparation of a US workforce with computing and computational competencies essential to success in an increasingly competitive global market.

The goal of this program is to contribute to the growth and development of future generations of scientists and engineers who will dedicate their careers to advancing research and education in the areas that CISE funds, and specifically to assist those investigators who do not have adequate organizational or other means of support to pursue their early-career research.

II. PROGRAM DESCRIPTION

This solicitation encourages potentially transformative proposals in any area of CISE research from PIs who are in their first academic position post-PhD. The goal is for the PI to have the essential resources to launch their research career so that they may establish an independent research profile. For the purposes of this program, CISE defines "essential resources" as sufficient funds for 48 months of graduate student support, with more flexibility for faculty at Primarily Undergraduate Institutions (PUIs). (See Section IV: Additional Eligibility Information later in this document for details.) A Department Chair/Head Letter template [<https://www.nsf.gov/cise/crri/deptchair.pdf>] must be used to affirm PI eligibility.

The CRII program is part of CISE's strategy to increase its investments in the development and growth of the research capabilities of future generations of computer and information scientists and engineers, including computational and data scientists and engineers. This solicitation provides the opportunity for early-career researchers who do not have adequate organizational or other means of support to pursue their early-career research, including to recruit and mentor their first graduate students (or undergraduate students, in the case of faculty at undergraduate and two-year institutions), which is one critical step in a career pathway that is expected to lead to research independence and a subsequent stream of projects, discoveries, students and publications.

CRII awards will be given to researchers to undertake exploratory investigations, to acquire and test preliminary data, develop collaborations within or across research disciplines, and/or develop new algorithms, approaches, and system designs/prototypes, which together or separately may lead to improved capacity to write successful proposals submitted to other programs in the future. In preparing CRII proposals, PIs should refer to Section V.A for guidance about the organization of their proposals. PIs should be aware that reviewers will be asked to consider the following, for each proposal: 1) the potential of the research initiation activities to produce sufficient preliminary results to serve as the basis for future competitive research proposals; 2) whether the activities are seen to be the necessary and critical steps for the PI to launch their research career; and 3) whether the proposal and the department chair letter adequately addresses how the request for funds matches the goals of this program, i.e., to help PIs obtain essential research resources, in the absence of access to such resources at their organizations or through other sources, in pursuit of their research goals.

Early-career researchers who are members of groups that have typically been underrepresented or under-served in CISE areas are especially encouraged to apply. Underrepresented groups in CISE areas include women, Hispanics, African Americans, Native Americans and Indigenous Peoples, and persons with disabilities.

CLOUD COMPUTING RESOURCES

Proposals may request cloud computing resources to use public clouds such as Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure, and IBM Cloud if the project depends on such resources for conducting research. Cloud computing resources described in proposals may be obtained through CloudBank ([CloudBank.org](https://www.cloudbank.org)), an external cloud access entity supported by NSF's [Enabling Access to Cloud Computing Resources for CISE Research and Education \(Cloud Access\) Program](https://www.nsf.gov/cise/crri/cloudaccess). CloudBank provides a convenient way for PIs to access any of the cloud providers and track usage of cloud resources.

Proposers should describe the request in a Supplementary Document no longer than two pages with (a) anticipated annual and total costs for accessing the desired cloud computing resources, based on pricing currently available from the public cloud computing providers; and (b) a technical description of, and justification for, the requested cloud computing resources. The NSF Budget should not include any such costs for accessing public cloud computing resources via [CloudBank.org](https://www.cloudbank.org). The total cost of the project, including this cloud computing resource request from [CloudBank.org](https://www.cloudbank.org), may not exceed the budget limit described in this solicitation (i.e., \$175,000). Proposers should include "CloudAccess" (one word without space) at the end of the Overview section (before the section on Intellectual Merit) of the Project Summary page. Proposers may contact [CloudBank.org](https://www.cloudbank.org) (see <https://www.cloudbank.org/faq>) for consultation on estimating the budget estimate for using cloud computing resources.

ACCESS TO EXPERIMENTAL RESEARCH INFRASTRUCTURE

CISE would like to make proposers aware of the vast array of NSF-supported research infrastructure that can be utilized in pursuit of their research goals. Examples of such infrastructure range from services offered by the Extreme Science and Engineering Discovery Environment ([XSEDE](https://www.es.edu)) and large-scale testbeds such as the Platforms for Advanced Wireless Research, FABRIC, Chameleon and CloudLab, to the awards made under the CISE Community Research Infrastructure (CCRI) program. PIs are encouraged to consider utilizing these resources when formulating their research plans and submitting proposals.

III. AWARD INFORMATION

CISE expects to make 55 to 60 awards each year. CISE expects the total funding to be up to \$10 million each year, subject to the availability of funds.

IV. ELIGIBILITY INFORMATION

Who May Submit Proposals:

Proposals may only be submitted by the following:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Special Instructions for International Branch Campuses of US IHEs: If the proposal includes funding to be provided to an international branch campus of a US institution of higher education (including through use of subawards and consultant arrangements), the proposer must explain the benefit(s) to the project of performance at the international branch campus, and justify why the project activities cannot be performed at the US campus.
- Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.

Who May Serve as PI:

Only one principal investigator per proposal is allowed; co-principal investigators and senior personnel are not permitted. Please see Additional Eligibility Information below for more information on who is eligible.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or co-PI:

A PI may submit one proposal per annual competition.

In addition, a Principal Investigator may not participate in more than two CRII competitions. Proposals that are not reviewed (i.e., are withdrawn before review or are returned without review) do not count toward the two-competition limit.

The PI may **not** submit a CRII proposal in the same calendar year in which he/she submits a CAREER proposal. A CRII proposal submitted in the same calendar year as a CAREER proposal by the same PI will be returned without review.

Additional Eligibility Info:

Principal Investigators are eligible to apply to this CRII solicitation only if **all** the following criteria are met **as of the submission deadline**. The PI should:

- Hold a primary appointment (or if applying to the CISE Office of Advanced Cyberinfrastructure, hold a full- or part-time appointment) in computer and/or information science and/or engineering, or in a related field of computational or data science (where the PI would normally submit proposals to CISE programs);
- Be untenured;
- Be in the first three years of a tenure-track or research science or education position (or equivalent). The number of years includes any academic position held post-PhD, exclusive of postdoctoral appointments. Only official leaves of absence (for illness, family, etc.) may be subtracted from the total time in the position, as certified by the PI's department chair/head in the required letter [<https://www.nsf.gov/cise/cii/deptchair.pdf>], to be included in the Supplementary Documents section of the proposal; and
- Must not already have resources available from all other sources sufficient for more than 24 months of full-time graduate student support, as also certified by the PI's department chair/head in the required letter. In calculating support available from other sources, all resources available to the PI since time of appointment should be counted, including those that were already spent or expired. The total of existing resources and budgeted resources must not exceed 48 months of graduate student support. This requirement does not apply to PIs at PUIs.

In addition, **as of the submission deadline**, the PI may not have received any funding in the PI role from any department, agency, or institution of the federal government. (One is, however, allowed to have received an award as a co-PI or Senior Personnel.) The following are the only exceptions to the limits on funding from the federal government in the PI role:

- Workshop or student conference travel awards;
- Doctoral dissertation improvement grants;
- Postdoctoral research fellowship awards, such as CI Fellows;
- A Graduate Research Fellowship or similar fellowship award from NSF;
- REU or RET awards; and
- SBIR or STTR awards that were received while the PI worked in industry.

Positions with titles such as Visiting Assistant Professor are considered as postdoctoral appointments, and hence not considered against the three-year limit, **only** if all of the following are true: (1) the position is not tenure-track; (2) someone in that position is not permitted by the organization to submit a proposal as a PI; and (3) the position is supervised by another faculty member in a fashion similar to that of a postdoctoral fellow. In this case, the department chair/head letter [<https://www.nsf.gov/cise/cii/deptchair.pdf>] should explicitly describe any such positions and their conditions. Similarly, positions with titles such as Research Associate or Visiting Research Professor do not count against the three-year limit **only** if all of the following are true: (1) the position is not tenure-track; (2) someone in that position is not permitted by the organization to submit a proposal as a PI; and (3) the person is supervised by another member of the research staff in a fashion similar to that of a researcher without a PhD. In this case, the department chair/head letter should explicitly describe any such positions and their conditions. Regardless of time spent in postdoctoral positions, time outside academia, or other time, the PI must be no more than six years since PhD granting for proposals submitted in 2021, and five years since PhD granting for proposals submitted after 2021. Exceptions may be granted only in cases of family or medical leave; consult with an NSF program officer for details.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal Preparation Instructions: Proposers may opt to submit proposals in response to this Program Solicitation via FastLane, Research.gov, or Grants.gov.

- Full proposals submitted via FastLane: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG). The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg. Paper copies of the PAPPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov. Proposers are reminded to identify this program solicitation number in the program solicitation block on the NSF Cover Sheet For Proposal to the National Science Foundation. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.
- Full Proposals submitted via Research.gov: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the *NSF Proposal and Award Policies and Procedures Guide* (PAPPG). The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg. Paper copies of the PAPPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov. The Prepare New Proposal setup will prompt you for the program solicitation number.
- Full proposals submitted via Grants.gov: Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the *NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov*. The complete text of the *NSF Grants.gov Application Guide* is available on the Grants.gov website and on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide. To obtain copies of the Application Guide and Application Forms Package, click on the Apply tab on the Grants.gov site, then click on the Apply Step 1: Download a Grant Application Package and Application Instructions link and enter the funding opportunity number, (the program solicitation number without the NSF prefix) and press the Download Package button. Paper copies of the Grants.gov Application Guide also may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov.

See PAPPG Chapter II.C.2 for guidance on the required sections of a full research proposal submitted to NSF. Please note that the proposal preparation instructions provided in this program solicitation may deviate from the PAPPG instructions.

The following information SUPPLEMENTS (note that it does NOT replace) the guidelines provided in the PAPPG and NSF Grants.gov Application Guide.

Cover Sheet:

The title of the research project must begin with "CRII: " in the title section of the NSF Cover Sheet, followed by the acronym of the program closest to the PI's research interests and expertise.

When identifying the program closest to the PI's research interests and expertise the PI must select the primary CISE Division or Office for submission [Division of Computing and Communication Foundations (CCF); Division of Computer and Network Systems (CNS); Division of Information and Intelligent Systems (IIS); and Office of Advanced Cyberinfrastructure (OAC)] based on the list below.

Office of Advanced Cyberinfrastructure (OAC):

- [OAC Core Research \(OAC\)](#)

Division of Computing and Communication Foundations (CCF):

- [Algorithmic Foundations \(AF\)](#)
- [Communications and Information Foundations \(CIF\)](#)
- [Software and Hardware Foundations \(SHF\)](#)
- [Foundations of Emerging Technologies \(FET\)](#)

Division of Computer and Network Systems (CNS):

- [CNS Core \(CNS\)](#)
- [CISE Education and Workforce \(EWF\)](#)
- [Cyber-Physical Systems \(CPS\)](#)
- [Secure and Trustworthy Cyberspace \(SaTC\)](#)

Division of Information and Intelligent Systems (IIS):

- [Information Integration and Informatics \(III\)](#)
- [Human Centered Computing \(HCC\)](#)
- [Robust Intelligence \(RI\)](#)
- [Foundational Research in Robotics \(FRR\)](#)
- [Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science \(SCH\)](#)

As a pair of examples, the title of a proposal submitted to the Algorithmic Foundations core program within CCF would take the form **CRII: AF: Title**; and the title of a proposal submitted to the Secure and Trustworthy Cyberspace (SaTC) crosscutting program led by CNS would take the form **CRII: SaTC: Title**.

Co-principal investigators and senior personnel are not permitted.

PIs submitting through the Research in Undergraduate Institutions (RUI) program should include **RUI**: immediately before the proposal title (e.g., **CRII: CPS: RUI: Title**). Note that including RUI adds the requirement for the proposal to include a RUI Certification and a RUI Impact Statement.

Project Summary:

Proposers requesting cloud resources through CloudBank.org should include "CloudAccess" (one word without space) at the end of the Overview section (before the section on Intellectual Merit) of the Project Summary page if incorporating this request into the proposal.

Project Description (10-page limit):

Because this award is for a duration of only two years, **the project description is limited to 10 pages in length.**

This program seeks to help PIs obtain essential research resources, in the absence of access to such resources at their organization or elsewhere, to assist them in the pursuit of research goals that will enable them to launch their research careers. A section of the Project Description should be titled: **Justification for Funding Request**. This section should describe why the funds sought in this proposal would help the PI achieve access to resources that are not available to the PI, despite what is available to the PI at their current organization or from another source. Please note that if the PI already has access to (or has been promised access to) resources at their current organization or elsewhere, and the CRII funds would simply amplify either the quantity, availability, or size of such resources over the planned duration of the project, then that is not considered an appropriate need targeted by this program. **Any proposal that does not contain this section will be returned without review.**

Budget:

Prepare a realistic budget that is consistent with the proposed activities not to exceed \$175,000 for a period of 24 months. **The budget must include a total of at least 1.0 month of salary for the PI plus 24 months of full-time graduate student support over the entire 24 months of the award** (except for PUI institutions, where at least 1.0 month of salary for the PI is required, but there is no minimum level of student support). Faculty with 12 month appointments (regardless of the institution type) need not include salary support in the budget, but such support is permitted. The total number of months of budgeted full-time graduate student support plus the number of months of graduate student support available to the PI from all other sources (not including non-university resources such as students receiving NSF GRFP awards) must not exceed 48 months. In calculating support available from other sources, all resources available to the PI since time of appointment should be counted, including those that were already spent or expired, with the only exception being non-university resources such as students receiving NSF GRFP awards or industry fellowships paid directly to the student.

The total budget of the project, including any cloud computing resource request from [CloudBank.org](https://www.cloudbank.org), may not exceed the budget limit in this solicitation. The total cost of the cloud computing resources requested from [CloudBank.org](https://www.cloudbank.org) should not be included in the NSF budget, and should be specified only in the associated supplementary document (see below for additional instructions).

Example: If a PI wishes to request \$20,000 in cloud computing resources through CloudBank, then his/her proposal should request, as part of the proposal budget, no more than \$155,000, rather than \$175,000 as is the limit for CRII. The remaining \$20,000 for cloud computing resources should be specified in the Supplementary Document.

Supplementary Documents:

1. **Department Chair/Head Letter (required)**, using the Department Chair/Head Letter template [<https://www.nsf.gov/cise/crri/deptchair.pdf>]. Faculty with appointments in more than one department only need the letter to be signed by the head of their primary department, but the calculation of need in the letter should take into account all resources from all appointments. **No changes to the letter are permitted, except to fill in the blanks and format it on university letterhead.**

2. **Data Management Plan (required)**: Proposals must include a Supplementary Document of no more than two pages labeled "Data Management Plan." This Supplementary Document should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results.

See PAPPG Chapter II.C.2.j for full policy implementation.

For additional information, see: <https://www.nsf.gov/bfa/dias/policy/dmp.jsp>

For specific guidance for proposals submitted to the CISE Directorate, see: https://www.nsf.gov/cise/cise_dmp.jsp.

3. **Cloud Computing Resources (if applicable)**:

If the proposal is requesting cloud computing resources through [CloudBank.org](https://www.cloudbank.org), include a description of your requests (not to exceed 2 pages) that includes: (1) title of the proposal; (2) the total cost of computing resources, with yearly breakdown; (3) which public cloud providers will be used; and (4) a technical description and justification of the request, along with how the cost was estimated.

Single Copy Documents:

Collaborators and Other Affiliations Information:

Proposers should follow the guidance specified in Chapter II.C.1.e of the NSF PAPPG. Submitters using Grants.gov may upload this document as a PDF.

Submission Checklist:

In an effort to assist proposal preparation, the following checklists are provided as a reminder of the items that should be checked before submitting a CRII proposal. These are a summary of the requirements described above. For the items marked with (RWR), the proposal will be returned without review if the required item is noncompliant at the submission deadline.

All proposals:

- (RWR) A PI may not participate in more than two CRII competitions.
- Title must start with **CRII**: followed by the acronym of the CISE program closest to the PI's research interests and expertise.
- (RWR) Must not include any co-PIs or senior personnel.
- (RWR) Maximum budget on the cover page and on the NSF budget sheets must not exceed \$175,000. If cloud resources are requested in the supplementary document section, the total budget amount, including the estimate for the cloud resources, must not exceed \$175,000.
- (RWR) Project Description must be no longer than 10 pages.
- (RWR) The Project Description must contain a distinct section addressing **Justification for Funding Requested**. This section should describe why the funds sought in this proposal would help the PI achieve access to resources that are not available at the organization or elsewhere to the PI.
- (RWR) For faculty at non-PUI institutions, the Project Duration must be 24 months, and must include a total of at least 1.0 month of salary for the PI plus 24 months of full-time graduate student support over the 24 months of the project. Faculty with 12 month appointments need not include salary support in the budget.
- (RWR) For faculty at PUI institutions, the Project Duration must be 24 months, and must include a total of at least 1.0 month of salary for the PI. Faculty with 12 month appointments need not include salary support in the budget.
- Letters of Collaboration are permitted as Supplementary Documents. *Letters of Support are not allowed; reviewers will be instructed not to consider these letters in reviewing the merits of the proposal.*
- (RWR) Must include as a Supplementary Document a department chair letter, prepared using the *Department Chair/Head Letter template*

[<https://www.nsf.gov/cise/crri/deptchair.pdf>] certifying that the PI meets the eligibility criteria. Faculty with appointments in more than one department only need the letter to be signed by the head of their primary department, but the calculation of need in the letter should take into account all resources from all appointments.

- (RWR) For PIs at non-PUI institutions, the total number of graduate student months budgeted plus the total number of graduate students months of support available to the PI from all other sources does not exceed 48 months. In calculating support available from other sources, all resources available to the PI since time of appointment should be counted, including those that were already spent or expired.
- If requesting public cloud resources through CloudBank, a supplementary document of up to two pages must be provided, and the "CloudAccess" keyword should be specified in the Project Summary.
- Must include the Collaborators & Other Affiliations (COA) list following the spreadsheet template as a Single Copy Document.

Proposals that do not comply with the requirements marked as RWR will be returned without review.

B. Budgetary Information

Cost Sharing:

Inclusion of voluntary committed cost sharing is prohibited.

Other Budgetary Limitations:

Budget must comply with the limitation specified.

C. Due Dates

- **Full Proposal Deadline(s)** (due by 5 p.m. submitter's local time):

September 20, 2021

Third Monday in September, Annually Thereafter

D. FastLane/Research.gov/Grants.gov Requirements

For Proposals Submitted Via FastLane or Research.gov:

To prepare and submit a proposal via FastLane, see detailed technical instructions available at: <https://www.fastlane.nsf.gov/a1/newstan.htm>. To prepare and submit a proposal via Research.gov, see detailed technical instructions available at: https://www.research.gov/research-portal/appmanager/base/desktop?_nfpb=true&_pageLabel=research_node_display&_nodePath=/researchGov/Service/Desktop/ProposalPreparationandSubmission.html. For FastLane or Research.gov user support, call the FastLane and Research.gov Help Desk at 1-800-673-6188 or e-mail fastlane@nsf.gov or rgov@nsf.gov. The FastLane and Research.gov Help Desk answers general technical questions related to the use of the FastLane and Research.gov systems. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this funding opportunity.

For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. Comprehensive information about using Grants.gov is available on the Grants.gov Applicant Resources webpage: <https://www.grants.gov/web/grants/applicants.html>. In addition, the NSF Grants.gov Application Guide (see link in Section V.A) provides instructions regarding the technical preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

Submitting the Proposal: Once all documents have been completed, the Authorized Organizational Representative (AOR) must submit the application to Grants.gov and verify the desired funding opportunity and agency to which the application is submitted. The AOR must then sign and submit the application to Grants.gov. The completed application will be transferred to the NSF FastLane system for further processing.

Proposers that submitted via FastLane or Research.gov may use Research.gov to verify the status of their submission to NSF. For proposers that submitted via Grants.gov, until an application has been received and validated by NSF, the Authorized Organizational Representative may check the status of an application on Grants.gov. After proposers have received an e-mail notification from NSF, Research.gov should be used to check the status of an application.

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

Proposals received by NSF are assigned to the appropriate NSF program for acknowledgement and, if they meet NSF requirements, for review. All proposals are carefully reviewed by a scientist, engineer, or educator serving as an NSF Program Officer, and usually by three to ten other persons outside NSF either as *ad hoc* reviewers, panelists, or both, who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with oversight of the review process. Proposers are invited to suggest names of persons they believe are especially well qualified to review the proposal and/or persons they would prefer not review the proposal. These suggestions may serve as one source in the reviewer selection process at the Program Officer's discretion. Submission of such names, however, is optional. Care is taken to ensure that reviewers have no conflicts of interest with the proposal. In addition, Program Officers may obtain comments from site visits before recommending final action on proposals. Senior NSF staff further review

recommendations for awards. A flowchart that depicts the entire NSF proposal and award process (and associated timeline) is included in PAPPG Exhibit III-1.

A comprehensive description of the Foundation's merit review process is available on the NSF website at: https://www.nsf.gov/bfa/dias/policy/merit_review/.

Proposers should also be aware of core strategies that are essential to the fulfillment of NSF's mission, as articulated in *Building the Future: Investing in Discovery and Innovation - NSF Strategic Plan for Fiscal Years (FY) 2018 – 2022*. These strategies are integrated in the program planning and implementation process, of which proposal review is one part. NSF's mission is particularly well-implemented through the integration of research and education and broadening participation in NSF programs, projects, and activities.

One of the strategic objectives in support of NSF's mission is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions must recruit, train, and prepare a diverse STEM workforce to advance the frontiers of science and participate in the U.S. technology-based economy. NSF's contribution to the national innovation ecosystem is to provide cutting-edge research under the guidance of the Nation's most creative scientists and engineers. NSF also supports development of a strong science, technology, engineering, and mathematics (STEM) workforce by investing in building the knowledge that informs improvements in STEM teaching and learning.

NSF's mission calls for the broadening of opportunities and expanding participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines, which is essential to the health and vitality of science and engineering. NSF is committed to this principle of diversity and deems it central to the programs, projects, and activities it considers and supports.

A. Merit Review Principles and Criteria

The National Science Foundation strives to invest in a robust and diverse portfolio of projects that creates new knowledge and enables breakthroughs in understanding across all areas of science and engineering research and education. To identify which projects to support, NSF relies on a merit review process that incorporates consideration of both the technical aspects of a proposed project and its potential to contribute more broadly to advancing NSF's mission "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes." NSF makes every effort to conduct a fair, competitive, transparent merit review process for the selection of projects.

1. Merit Review Principles

These principles are to be given due diligence by PIs and organizations when preparing proposals and managing projects, by reviewers when reading and evaluating proposals, and by NSF program staff when determining whether or not to recommend proposals for funding and while overseeing awards. Given that NSF is the primary federal agency charged with nurturing and supporting excellence in basic research and education, the following three principles apply:

- All NSF projects should be of the highest quality and have the potential to advance, if not transform, the frontiers of knowledge.
- NSF projects, in the aggregate, should contribute more broadly to achieving societal goals. These "Broader Impacts" may be accomplished through the research itself, through activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified.
- Meaningful assessment and evaluation of NSF funded projects should be based on appropriate metrics, keeping in mind the likely correlation between the effect of broader impacts and the resources provided to implement projects. If the size of the activity is limited, evaluation of that activity in isolation is not likely to be meaningful. Thus, assessing the effectiveness of these activities may best be done at a higher, more aggregated, level than the individual project.

With respect to the third principle, even if assessment of Broader Impacts outcomes for particular projects is done at an aggregated level, PIs are expected to be accountable for carrying out the activities described in the funded project. Thus, individual projects should include clearly stated goals, specific descriptions of the activities that the PI intends to do, and a plan in place to document the outputs of those activities.

These three merit review principles provide the basis for the merit review criteria, as well as a context within which the users of the criteria can better understand their intent.

2. Merit Review Criteria

All NSF proposals are evaluated through use of the two National Science Board approved merit review criteria. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two merit review criteria are listed below. **Both** criteria are to be given **full consideration** during the review and decision-making processes; each criterion is necessary but neither, by itself, is sufficient. Therefore, proposers must fully address both criteria. (PAPPG Chapter II.C.2.d(i). contains additional information for use by proposers in development of the Project Description section of the proposal). Reviewers are strongly encouraged to review the criteria, including PAPPG Chapter II.C.2.d(i), prior to the review of a proposal.

When evaluating NSF proposals, reviewers will be asked to consider what the proposers want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. These issues apply both to the technical aspects of the proposal and the way in which the project may make broader contributions. To that end, reviewers will be asked to evaluate all proposals against two criteria:

- **Intellectual Merit:** The Intellectual Merit criterion encompasses the potential to advance knowledge; and
- **Broader Impacts:** The Broader Impacts criterion encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.

The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to
 - a. Advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
 - b. Benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or organization to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. NSF values the advancement of scientific knowledge and activities that contribute to achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and other underrepresented groups in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the United States; and enhanced infrastructure for research and education.

Proposers are reminded that reviewers will also be asked to review the Data Management Plan and the Postdoctoral Researcher Mentoring Plan, as appropriate.

Additional Solicitation Specific Review Criteria

Additional review criteria include:

1. the potential of the research initiation activities to produce sufficient preliminary results to serve as the basis for future competitive research proposals;
2. whether the activities are seen to be the necessary and critical steps for the PI to launch their research career; and
3. whether the proposal as well as the department chair letter both adequately address how the request for funds matches the goals of this program, i.e., to help PIs obtain essential research resources, in the absence of access to such resources at their organizations or elsewhere, in pursuit of their research independence.

B. Review and Selection Process

Proposals submitted in response to this program solicitation will be reviewed by Ad hoc Review and/or Panel Review.

Reviewers will be asked to evaluate proposals using two National Science Board approved merit review criteria and, if applicable, additional program specific criteria. A summary rating and accompanying narrative will generally be completed and submitted by each reviewer and/or panel. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

After scientific, technical and programmatic review and consideration of appropriate factors, the NSF Program Officer recommends to the cognizant Division Director whether the proposal should be declined or recommended for award. NSF strives to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. Large or particularly complex proposals or proposals from new awardees may require additional review and processing time. The time interval begins on the deadline or target date, or receipt date, whichever is later. The interval ends when the Division Director acts upon the Program Officer's recommendation.

After programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications. After an administrative review has occurred, Grants and Agreements Officers perform the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at their own risk.

Once an award or declination decision has been made, Principal Investigators are provided feedback about their proposals. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers or any reviewer-identifying information, are sent to the Principal Investigator/Project Director by the Program Officer. In addition, the proposer will receive an explanation of the decision to award or decline funding.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

Notification of the award is made to *the submitting organization* by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See Section VI.B. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award notice, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award notice; (4) the applicable award conditions, such as Grant General Conditions (GC-1)*; or Research Terms and Conditions* and (5) any announcement or other NSF issuance that may be incorporated by reference in the award notice. Cooperative agreements also are administered in accordance with NSF Cooperative Agreement Financial and Administrative Terms and Conditions (CA-FATC) and the applicable Programmatic Terms and Conditions. NSF awards are electronically signed by an NSF Grants and Agreements Officer and transmitted electronically to the organization via e-mail.

*These documents may be accessed electronically on NSF's Website at https://www.nsf.gov/awards/managing/award_conditions.jsp?org=NSF. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov.

More comprehensive information on NSF Award Conditions and other important information on the administration of NSF awards is contained in the NSF *Proposal & Award Policies & Procedures Guide* (PAPPG) Chapter VII, available electronically on the NSF Website at

https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg.

C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the Principal Investigator must submit an annual project report to the cognizant Program Officer no later than 90 days prior to the end of the current budget period. (Some programs or awards require submission of more frequent project reports). No later than 120 days following expiration of a grant, the PI also is required to submit a final project report, and a project outcomes report for the general public.

Failure to provide the required annual or final project reports, or the project outcomes report, will delay NSF review and processing of any future funding increments as well as any pending proposals for all identified PIs and co-PIs on a given award. PIs should examine the formats of the required reports in advance to assure availability of required data.

PIs are required to use NSF's electronic project-reporting system, available through Research.gov, for preparation and submission of annual and final project reports. Such reports provide information on accomplishments, project participants (individual and organizational), publications, and other specific products and impacts of the project. Submission of the report via Research.gov constitutes certification by the PI that the contents of the report are accurate and complete. The project outcomes report also must be prepared and submitted using Research.gov. This report serves as a brief summary, prepared specifically for the public, of the nature and outcomes of the project. This report will be posted on the NSF website exactly as it is submitted by the PI.

More comprehensive information on NSF Reporting Requirements and other important information on the administration of NSF awards is contained in the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) Chapter VII, available electronically on the NSF Website at https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg.

VIII. AGENCY CONTACTS

Please note that the program contact information is current at the time of publishing. See program website for any updates to the points of contact.

General inquiries regarding this program should be made to:

- Jeremy J. Epstein, telephone: (703) 292-8338, email: jepstein@nsf.gov
- Ephraim P. Glinert, Program Director, IIS, telephone: (703) 292-8930, email: eglinert@nsf.gov
- Almadena Y. Chitchelkanova, Program Director, CCF, telephone: (703) 292-8910, email: achtchel@nsf.gov
- Jeremy J. Epstein, Program Director, CNS, telephone: (703) 292-8338, email: jepstein@nsf.gov
- Alan Sussman, Program Director, OAC, telephone: (703) 292-7563, email: alasusm@nsf.gov

For questions related to the use of FastLane or Research.gov, contact:

- FastLane and Research.gov Help Desk: 1-800-673-6188
- FastLane Help Desk e-mail: fastlane@nsf.gov
- Research.gov Help Desk e-mail: rgov@nsf.gov.

For questions relating to Grants.gov contact:

- Grants.gov Contact Center: If the Authorized Organizational Representatives (AOR) has not received a confirmation message from Grants.gov within 48 hours of submission of application, please contact via telephone: 1-800-518-4726; e-mail: support@grants.gov.

IX. OTHER INFORMATION

The NSF website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this website by potential proposers is strongly encouraged. In addition, "NSF Update" is an information-delivery system designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF [Grants Conferences](#). Subscribers are informed through e-mail or the user's Web browser each time new publications are issued that match their identified interests. "NSF Update" also is available on [NSF's website](#).

Grants.gov provides an additional electronic capability to search for Federal government-wide grant opportunities. NSF funding opportunities may be accessed via this mechanism. Further information on Grants.gov may be obtained at <https://www.grants.gov>.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation

accounts for about one-fourth of Federal support to academic institutions for basic research.

NSF receives approximately 55,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Arctic and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

Facilitation Awards for Scientists and Engineers with Disabilities (FASSED) provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See the *NSF Proposal & Award Policies & Procedures Guide* Chapter II.E.6 for instructions regarding preparation of these types of proposals.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090 and (800) 281-8749, FIRS at (800) 877-8339.

The National Science Foundation Information Center may be reached at (703) 292-5111.

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants and cooperative agreements for research and education in the sciences, mathematics, and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Website at <https://www.nsf.gov>.

- **Location:** 2415 Eisenhower Avenue, Alexandria, VA 22314
- **For General Information** (NSF Information Center): (703) 292-5111
- **TDD (for the hearing-impaired):** (703) 292-5090
- **To Order Publications or Forms:**
 - Send an e-mail to: nsfpubs@nsf.gov
 - or telephone: (703) 292-8134
- **To Locate NSF Employees:** (703) 292-5111

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; and project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the proposal review process; to proposer institutions/grantees to provide or obtain data regarding the proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies or other entities needing information regarding applicants or nominees as part of a joint application review process, or in order to coordinate programs or policy; and to another Federal agency, court, or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See [System of Record Notices](#), [NSF-50](#), "Principal Investigator/Proposal File and Associated Records," and [NSF-51](#), "Reviewer/Proposal File and Associated Records." Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0058. Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding the burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

Suzanne H. Plimpton
Reports Clearance Officer
Policy Office, Division of Institution and Award Support
Office of Budget, Finance, and Award Management
National Science Foundation
Alexandria, VA 22314

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National Science Foundation, 2415 Eisenhower Avenue, Alexandria, Virginia 22314, USA
Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (703) 292-5090 or (800) 281-8749

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