U.S. National Science Foundation Division of Civil, Mechanical and Manufacturing Innovation

NSF RAPID Proposals



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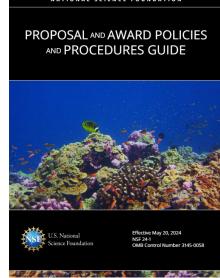
NSF Proposal and Award Policies and Procedures Guide (PAPPG), NSF 24-1

https://new.nsf.gov/policies/pappg

Part I: Proposal Preparation and Submission Guidelines Part II: Award, Administration and Monitoring of NSF Assistance Awards

Please see highlights in document for changes, e.g.,

- Mentoring plan to include graduate students as well as postdocs, including annual updates
- Changes to the **bio-sketch** –submission via **SciENcv** required, no length limitation
- Concept outlines required for RAPID, EAGER, and RAISE proposals
- Disclosure Requirements: new requirement for providing updated Current and Pending Support prior to a funding recommendation
- Certification required that the organization has a plan in place regarding safe and inclusive working environments for proposals involving off-campus or off-site research



NSF Rapid Response Research (RAPID) - Proposal Preparation https://new.nsf.gov/policies/pappg/24-1/ch-2-proposal-preparation#2F2

Excerpts from PAPPG:

"RAPID is a type of proposal used when there is a severe urgency with regard to availability of or access to, data, facilities or specialized equipment, including quick-response research on natural or anthropogenic events and similar unanticipated occurrences."

"PIs are advised that they must submit a Concept Outline prior to submission of a RAPID proposal. This will aid in determining the appropriateness of the work for consideration under this type of proposal. Concept Outlines can be submitted either by email to a cognizant Program Officer or via ProSPCT. An NSF funding opportunity that includes RAPID proposals will provide specific guidance on submission of Concept Outlines using either email or via ProSPCT. See Chapter I.D.1 for additional information on Concept Outlines. For Concept Outlines that must be submitted via ProSPCT, users must have a valid Login.gov account to access the tool. The prospective PI will receive an email from the cognizant NSF program officer that specifies whether a full proposal may be submitted. The email confirming approval to submit a RAPID proposal must be uploaded by the prospective PI in the "Program Officer Concurrence Email" section of Research.gov."

Proposal submission:

- Project Description must be no more than 5 pages
- "RAPID" as prefix to project title
- Requests for up to \$200,000 (including indirect costs) and up to one year in duration
- Program Officer Concurrence Email

RAPID Proposal Submission

- Identify research questions that require perishable data collection
- Find the appropriate NSF program
- Contact the NSF Program Officer
- Submit abstract/Concept Outline via email to the Program Officer or via NSF ProSPCT tool
- If positive response from Program Officer, include Program Officer confirmation email in RAPID proposal submission...some considerations:
 - AOR certification for plan in place for "Safe and Inclusive Working Environments for Off-Campus or Off-Site Research"
 - Data Management Plan
 - Situational awareness included, e.g.,
 - Accessibility to field location
 - Data collection methods and challenges
 - Field training (NHERI CONVERGE modules)
 - Ethical considerations
 - Human subjects
 - Environmental impacts
 - Registered historic places
 - Tribal Nations lands and resources

RAPID Proposals Must Also Address, e.g.,

How the RAPID award personnel and awardee institution will address the new requirement in the PAPPG, NSF 24-1, Chapter II.E.9:

"9. Safe and Inclusive Working Environments for Off-Campus or Off-Site Research

It is NSF policy (see Chapter XI.A.1.g.) to foster safe and harassment-free environments wherever science is conducted. NSF's policy recognizes that a community effort is essential to eliminate sexual and other forms of harassment in science and to build inclusive scientific climates where people can learn, grow, and thrive. Accordingly, for each proposal that proposes to conduct research off-campus or off site, the AOR must complete a certification that the organization has a plan in place for that proposal that describes how the following types of behavior will be addressed: a. Abuse of any person, including, but not limited to, harassment, stalking, bullying, or hazing of any kind, whether the behavior is carried out verbally, physically, electronically, or in written form; or

b. Conduct that is unwelcome, offensive, indecent, obscene, or disorderly.

This plan should also identify steps the proposing organization will take to nurture an inclusive off-campus or off-site working environment, e.g., trainings; processes to establish shared team definitions of roles, responsibilities, and culture, e.g., codes of conduct; and field support, such as mentor/mentee support mechanisms, regular check-ins, and/or developmental events.

Communications within team and to the organization should be considered in the plan, minimizing singular points within the communications pathway (e.g., a single person overseeing access to a single satellite phone), and any special circumstances such as the involvement of multiple organizations or the presence of third parties in the working environment should be taken into account. The process or method for making incident reports as well as how any reports received will be resolved should also be accounted for.

The organization's plan for the proposal must be disseminated to individuals participating in the off-campus or off-site research prior to departure. Proposers should not submit the plan to NSF for review."

RAPID Proposals May Also Need to Address, e.g.,

- Environmental impacts, as applicable
 - https://new.nsf.gov/policies/pappg/24-1/ch-2-proposal-preparation#ch2D2i-v

"(iv) **Federal Environmental Statutes** In order for NSF to comply with Federal Environmental Statutes (including, but not limited to, the National Environmental Policy Act (42 U.S.C. § 4321, et seq.)), the National Historic Preservation Act (54 U.S.C. § 306108 [previously codified at 16 U.S.C. § 470, et seq.], and the Endangered Species Act (16 U.S.C. § 1531, et seq.), the proposer may be requested to submit supplemental post-proposal submission information to NSF in order that a reasonable and accurate assessment of environmental impacts by NSF may be made. The types of information that may be requested are shown in the <u>Organization Environmental Impacts</u> <u>Checklist</u>."

• Tribal Nations Approval, as applicable

https://new.nsf.gov/policies/pappg/24-1/ch-2-proposal-preparation#ch2E10



Graphics from Purdue University

NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE (NHERI)





For more information, visit the NHERI DesignSafe website: DesignSafe-ci.org

Engineering for Civil Infrastructure (ECI) Program (PD 19-073Y)

https://new.nsf.gov/funding/opportunities/engineering-civil-infrastructure-eci

Civil infrastructure considered by ECI includes but is not limited to: buildings; residential construction; earth and earth retaining structures; components of flood protection systems; water, waste disposal, and wastewater systems; energy infrastructure (excluding nuclear); and transportation systems (excluding pavements).

ECI considers the performance of physical civil infrastructure subjected to or interacting with:

- Natural environment during construction
- "Normal" service conditions
- Severe loading and environmental conditions
- Extreme single or multiple events, e.g., climate change, extreme weather, windstorms (e.g., tornadoes, hurricanes), earthquakes, tsunamis, storm surge, landslides, fire (including wildland-urban interface (WUI) fire)



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Humans, Disasters and the Built Environment (HDBE)

<u>https://new.nsf.gov/funding/opportunities/hdbe-humans-disasters-built-environment</u> Program Director: Daan Liang, <u>dliang@nsf.gov</u>

The HDBE program supports fundamental, multidisciplinary research on the interactions between humans and the built environment within and among communities exposed to natural, technological and other types of hazards and disasters

The program seeks proposals that enrich understanding and explore implications of these interactions, whether through theoretical, methodological or empirical advances, thereby contributing to society's capabilities to learn from, prepare for and respond to hazards and disasters



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NSF Merit Review Process https://www.nsf.gov/bfa/dias/policy/merit_review/

NSF Panel Orientation Video-The Art and Science of Reviewing Proposals https://tipsforreviewers.nsf.gov/

NSF Proposal Review Panel Video https://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=81278

Volunteer to be a reviewer! Send an email to Program Directors with your CV