NSF/NIST Disaster Resilience Grants

UM ORSP Information Session

July 13, 2020
Format for Meeting

Timeline for Proposal Prep & Submission
Flagship Constellations Proposals
FC Pre-award Research Admin Services (Kendra)
Funding Opportunity Overview
Enhanced Review Services
Planned Pitches
Impromptu Pitches
Questions
Breakout Sessions (as needed)
Wrap Up
The National Science Foundation (NSF) and the U.S Department of Commerce (DOC) National Institute for Standards and Technology (NIST) call for proposals for research to advance fundamental understanding of disaster resilience in support of improved science-based planning, policy, decisions, design, codes, and standards.
Disaster Resilience

Reducing the impact of disasters on our communities requires a multifaceted methodology: prevention, preparedness, response, and recovery. This constellation marries insight and research from environmental and legal disciplines with material sciences, information technology, and public health. Together, we will develop technologies, tools, and inform policies to mitigate disasters and increase the resilience and sustainability of communities.

Team Leaders

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Any proposal to this funding opportunity is, by definition, related to the Disaster Resilience Constellation.
Community Wellbeing

Communities across the rural-urban continuum face increasing challenges to their economies, personal health, environmental health, food security, housing, and infrastructure. Our multidisciplinary research teams and programs will work within communities to identify the factors impairing their wellbeing and deploy new programs and practices to build stronger, more vibrant communities.

Team Leaders

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Depending on the research focus, it may also be related to the Community Wellbeing Constellation.
Constellation Support

If the proposal is also multi-disciplinary, and multi-investigator, then it may also be Primarily Associated with either constellation.

*It does not matter whether the PI has been an active member of the constellations up to now.*

Additional Resources are available for primarily associated Constellation Proposals.

- Enhanced pre-award proposal preparation support
- Funding for enhanced external proposal reviews
Enhanced Pre-Award Support

Kendra Sampey supports development of collaborative constellation proposals!

- Studies the RFP to understand & communicate requirements
- Creates proposal development checklists and timelines
- Schedules meetings with proposal team
- Develops budgets and budget justifications
- Reviews proposal documents for completeness/compliance
- Uploads documents to sponsor portals
- Manages transmittal routing and approvals
- Submits approved proposals on behalf of institution
- Coordinates with local research admin support personnel
- Exports proposals to ORSP Sponsored Programs Database
To be primarily associated with at most 1 FC:
1. Must directly relate to FC theme;
2. Should involve multiple PIs or collaborators on the UM Oxford and/or UMMC campuses;
3. Should involve multiple disciplines on the UM Oxford and/or UMMC campuses; and
4. Must NOT be marked as primarily associated with any other FC.

Primary Associations are exclusive relationships; however, an FC may also be marked as related to one or more of the other FCs. →

To be related to one or more FCs:
1. Must directly relate to the FC theme (same as criterion #1); but,
2. Does not meet all the other criteria (#2, #3, and #4) for a primary association.

Possible Examples of Relatedness:
- FC thematic single investigator proposals.
- FC thematic proposals with multi-investigators in the same discipline.
- Multi-UM/UMMC PI, multi-UM/UMMC discipline proposals primarily associated with another FC.
- Proposals that rely on other institutions to achieve multidisciplinary collaborations.*

*Note: This Flowchart is intended as a guide to help pre-award specialists prompt, PIs mark, and constellation leaders confirm a proposal’s primary association with, or relation to, a constellation. Every proposal is unique, and the ultimate judgment about a proposal’s constellation status should be made by constellation leader(s), in consultation with the PI and ORSP, as needed.
Timeline for Submission

1. Review projects funded in 2018 funding round (optional)
2. Signup 7/24 for NIST Disaster Resilience Symposium Jul 28-29 (opt)
3. Register for 7/30 for 8/3 NIST Disaster Resilience Webinar (opt)
4. Submit Required LOI by 8/14
7. Reach out very early to your pre-award research admin, and work with them on mechanics of proposal prep and submission.
8. Submit ORSP transmittal the first week in September.
Facts

Award Size: $200K to $400K (incl. overhead)

Awards: 8 to 12 expected

LOI Due: 8/14/2020

Proposal Due: 9/15/2020

Proposals Allowed: Unlimited
Disasters **not covered** by this opportunity:

- Terrorism
- Industrial Accidents
- Pandemics
Natural hazards of interest include, but are not limited to:

Windstorm events, incl. hurricanes and tornadoes

Water events, including hurricanes, sustained rain, both coastal and inland flood, and tsunamis

Wildland-urban interface fires

Earthquakes

Projects that aim to address multi-hazard resilience phenomena are welcome.
DR **Entities** of interest include, but are **not limited to**:

- Structures
- Infrastructures and Lifelines
- Communities and Jurisdictions
- Households
DR processes of interest include, but are not limited to:

- Destructive forces associated w/ hazards, e.g., wind forces, seismic forces, water forces, and wildland-urban interface fire-related radiative, convective, or branding forces;
- Performance of structures & infrastructure in natural hazard events;
- Assessment of potential community-level disaster consequences, including characterization of risks, potential failures, and anticipated losses in support of planning and decision making;
- Development or assessment of alternatives for improving resilience that address prevention, preparedness, response, mitigation, or recovery.
- Diffusion, adoption and implementation of resilience measures for households, organizations, or jurisdictions.
DR Policies and Practices of interest include, but are not limited to:

**Building design** practices, codes, and standards

**Infrastructure design** practices, codes, & standards

**Community** planning and decision making

**Household** planning and decision making;

**Land-use** planning and decision making
Required Letter of Intent (LOI):

Due August 14

• LOI must include the names and institutions of the PI, Co-PIs, and Senior Personnel, as well as the names of any anticipated subaward institutions.

• LOIs must also include a brief description of the proposed research and its relevance to national resilience.

• No feedback will be given to PIs regarding their LOIs.

• Authorized Organizational Representative (AOR) submission is not required for LOIs.
NIST Disaster Resilience Grants
Informational Webinar

• **August 3, 2-3:30 pm CDT**

• Sign up at
  https://appam.certain.com/profile/form/index.cfm?PKformID=0x59243abcd

• Registration closes July 30
Merit Review Criteria

**Intellectual Merit**
- Potential to advance knowledge

**Broader Impacts**
- Potential to benefit society and contribute to the achievement of specific, desired societal outcomes

**Additional Resilience Criteria** Explain:
- How resilience is being defined
- How phenomena to be studied relate to resilience
- How insights learned might improve resilience
For Proposals to be funded by NIST, additional criteria will be considered:

**Alignment with goals of existing NIST DR Programs**

1. Disaster and Failure Studies
2. Wildland-Urban Interface Fire
3. Earthquakes
4. Windstorms.

**Broader Impacts**

Will be of equal importance to Intellectual Merit
NIST is closely monitoring guidance from Federal, State, and local health authorities on the outbreak of COVID-19. To protect the health and safety of NIST employees and the American public they continue to serve, NIST has decided to make the 2020 NIST Disaster Resilience Symposium virtual only. For more information on COVID-19, please visit: cdc.gov/covid19.

The Engineering Laboratory at NIST, Gaithersburg, will be hosting its third annual symposium, July 28-29, 2020, featuring the Disaster Resilience Grant Research Program recipients from 2017 and 2019.

Recipients will present their research and findings from their awards from topics related to Disaster and Failure Studies, National Earthquake Hazards Reduction Program, Wind Impact Reduction, and Reduced Ignition of Building Components in Wildland-Urban Interface (WUI) Fires Project.
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TIG Internal Review with Revisions is an iterative, non-technical Draft Narrative review provided by The Implementation Group (TIG), a research development firm.

TIG will assign it to general reviewer who will provide a critical reading with respect to the non-technical aspects (i.e., idea presentation and development, proposal structure, wording and format, and responsiveness to guidelines).

Recommendations will be provided via: highlights and margin comments on up to two proposal drafts; suggested edits to sections, paragraphs, sentences, or words; and a short summary of overall recommendations w/each review; and a call to discuss the recommendations.

Also included is one final round of polishing, consisting of a detailed edit to the proposal narrative text.

Fee-based. Constellation funds may be available for Primarily Associated Constellation proposals.
TIG External Disciplinary Expert Review

TIG has a network of disciplinary subject matter experts to provide technical reviews of proposals. Each disciplinary consultant will have direct subject-matter expertise and/or previously served at the level of a program director or higher at a federal agency.

TIG will send the Draft Narrative out to one of these consultants for one iteration review and critique.

The disciplinary consultant will vet the science of the application and provide suggestions for overall strengthening, aimed at increasing competitiveness.

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http://research.olemiss.edu/EnhancedReview
ORSP Enhanced Review

ORSP-in-house, free, non-technical narrative review.

ORSP Research Development staff member will conduct one or more iterations of review for: clarity, effect, and specificity; responsiveness to program guidelines and review criteria; grammar and punctuation; wording/effect; broader/societal impacts; and reference to UM resources and infrastructure.

Available to all UM proposal writers upon timely request.

http://research.olemiss.edu/EnhancedReview
Pitch Presenters
with links to profile pages/contact info

1. Lei. Cao
2. M. Matalgah
3. Stephen Brewer
4. Elizabeth Ervin
5. Chris Mullen
6. Yaoxian Zhang
7. Ahmed Al-Ostaz
8. Ronald Counts
9. Stephanie Otts
10. Katerina Berezina
11. Anne Cafer (UM CREW)