

# **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

# Purpose

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

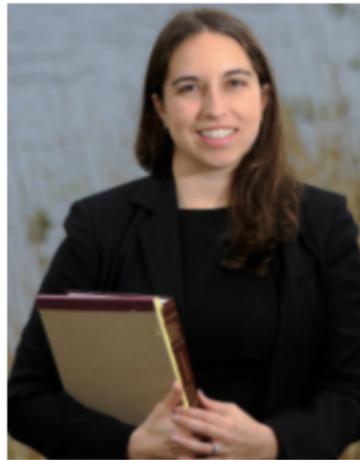
Reducing the impact of disasters on our communities requires a multifaceted methodology: prevention, preparedness, response, and recovery. This constellation marries insight and research from environmental and legal disciplines with material sciences, information technology, and public health. Together,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

## Team Leaders



**Greg Easson**

[geasson@olemiss.edu](mailto:geasson@olemiss.edu)



**Stephanie Showalter Otts**

[sshowalt@olemiss.edu](mailto:sshowalt@olemiss.edu)

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.

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

## Team Leaders



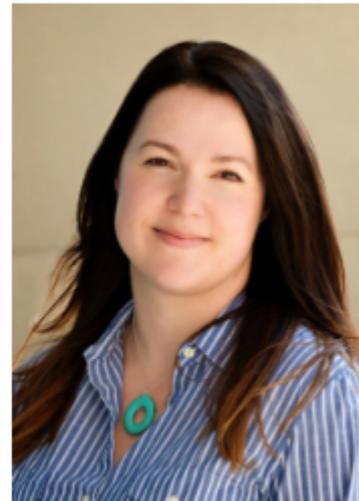
**Anne Cafer**

[amcafer@olemiss.edu](mailto:amcafer@olemiss.edu)



**Seena L. Haines**

[slhaines@olemiss.edu](mailto:slhaines@olemiss.edu)



**Meagen M. Rosenthal**

[mmrosent@olemiss.edu](mailto:mmrosent@olemiss.edu)

# 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

# UM/Oxford Flagship Constellation (FC) Proposal Development Flowchart

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. →

## FC Transmittal Routing

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.\*

PIs & Participants  
UM/Oxford  
FC Leads



Departmental  
Chair(s) and  
School  
Dean(s)



FC RA  
Kendra  
Sampey



AOR  
Melissa HP

PIs & Participants  
UM/Oxford  
FC Leads



Departmental  
and School  
Dean(s)



Assigned  
School or SPA  
RA



AOR  
Melissa HP

**\*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**
5. Review and following proposal preparation instructions in NSF Proposal and Awards Policies and Procedures Guide (PAPPG)  
[https://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=pappg](https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg)
6. Request ORSP Enhanced Review, TIG Internal Review, and/or TIG External Disciplinary Expert Review, contact Jason Hale ASAP, NLT **8/3** (*opt*) <http://research.olemiss.edu/EnhancedReview>
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**.
9. Proposal must be submitted to NSF no later than **9/15/2020**.

# 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**

# VIRTUAL-2020 NIST Disaster Resilience Symposium

## Disaster Resilience Grants Program

### VIRTUAL-2020 NIST Disaster Resilience Symposium

2019 Disaster Resilience Symposium +

2018 Disaster Resilience Symposium +

Related Links

Resources +

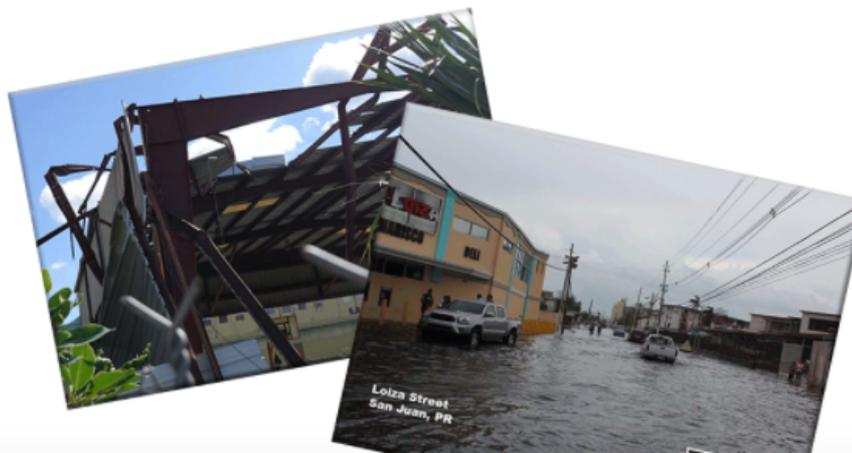
2018 NOFO Archive



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](https://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](#).



July 28 - 29, 2020

Virtual Only - Eastern Time

Register

Registration closes on **July 24, 2020**. Virtual Session Links will be sent to registered attendees on **July 27, 2020**.

**There is no registration fee.**

The virtual symposium has increased its registration capacity and will be limited to **900** participants. Registrations will be approved on a first-come, first-serve basis. A waitlist registration will be made available if the event reaches its capacity.

## REGISTRATION CONTACT

Pauline Truong  
[pauline.truong@nist.gov](mailto:pauline.truong@nist.gov)  
(301) 975-3258

# Timeline for Submission

1. Review projects funded in 2018 funding round (*optional*)
2. Participate in NIST Disaster Resilience **Symposium July 28-29** (*opt*)
3. Register for **7/30** for **8/3** NIST Disaster Resilience Webinar (*opt*)
4. Submit Required LOI by **8/14**
5. Review and following proposal preparation instructions in NSF Proposal and Awards Policies and Procedures Guide (PAPPG)  
[https://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=pappg](https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg)
6. Request ORSP Enhanced Review, TIG Internal Review, and/or TIG External Disciplinary Expert Review, contact Jason Hale ASAP, NLT **8/3** (*opt*) <http://research.olemiss.edu/EnhancedReview>
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**.
9. Proposal must be submitted to NSF no later than **9/15/2020**.

# TIG Internal Review with Revisions

**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.

**Fee-based**. Constellation funds may be available for **Primarily Associated Constellation proposals**.

<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](#))