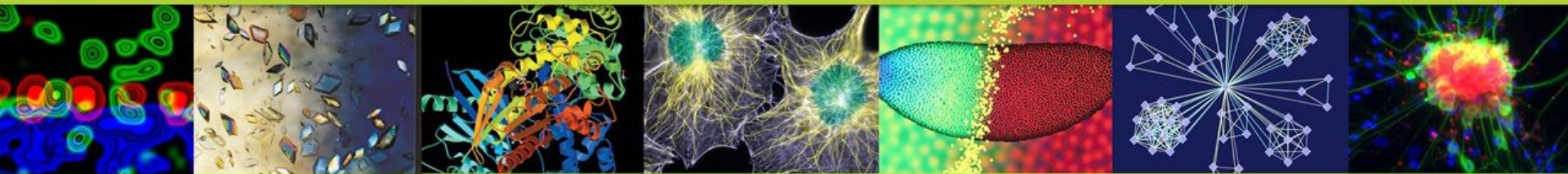


# Prospective Applicant Webinar:

## Research on Interventions that Promote the Careers of Individuals in the Biomedical Research Enterprise (PAR-21-269)

July 26, 2022



# Before We Start...

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- **This webinar is being recorded** and will be available online.
- The slides will also be posted online.
- Type your questions in the “Q&A” box.
- There will be a Q&A period at the end of the webinar.

# Webinar Participants

---

## Program

- Sydella Blatch, Ph.D., Research on Interventions Program Officer
- Shakira Nelson, Ph.D., Research on Interventions Program Officer



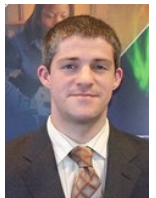
## Review

- Isaaah Vincent, Ph.D., NIGMS Scientific Review Branch



## Grants Management

- Justin Rosenzweig, Grants Management Team Leader



# Tweet us!

Follow us [@NIGMSTraining](https://twitter.com/NIGMSTraining)



The image shows a screenshot of the Twitter profile for NIGMS Training & Capacity Building. The profile picture is a blue banner with the text "NIGMS Training & Capacity Building" and a map of the United States with several states highlighted in blue. Below the banner is a circular logo with the NIH logo and the text "National Institute of General Medical Sciences Training and Capacity Building". To the right of the profile picture is a blue button that says "Edit profile". Below the profile picture is the name "NIGMS Training & Capacity Building" with a verified account icon, the handle "@NIGMSTraining", and a bio that reads "@NIGMS account for research training, careers & research capacity building news. Privacy policy [bit.ly/2jnhHvZ](https://bit.ly/2jnhHvZ) & disclaimers [bit.ly/2kGSdGM](https://bit.ly/2kGSdGM)." Below the bio is the location "Bethesda, MD", a website link "[nigms.nih.gov/training/Pages...](https://nigms.nih.gov/training/Pages...)", and the date "Joined October 2017".

# Disclaimer

---

This webinar and accompanying slides are for informational purposes only. They serve as an overview of the NIGMS Research on Interventions Program and are not meant to be comprehensive in coverage of all required components of an application.

**Applicants are responsible for following the instructions detailed in the FOA and any Related Notices (included in the FOA's Overview Information section), and the SF424 Application Guide.**

# Importance of Checking for Notices!

Check the FOA online, Part I, for recently published Notices. They can describe important changes to the FOA.

Funding Opportunity Title

Research on Interventions that Promote the Careers of Individuals in the Biomedical Research Enterprise (R01 Clinical Trial Not Allowed)

Activity Code

R01 Research Project Grant

**July 19, 2021** - Notice of Change to Award Budget Limitations for PAR-21-269. See Notice [NOT-GM-21-055](#).

Related Notices



See [Notices of Special Interest](#) associated with this funding opportunity

- **October 28, 2021** - Reminder: FORMS-G Grant Application Forms & Instructions Must be Used for Due Dates On or After January 25, 2022 - New Grant Application Instructions Now Available. See Notice [NOT-OD-22-018](#).
- **September 13, 2021** - Updates to the Non-Discrimination Legal Requirements for NIH Recipients. See Notice [NOT-OD-21-181](#).
- **August 5, 2021** - New NIH "FORMS-G" Grant Application Forms and Instructions Coming for Due Dates on or after January 25, 2022. See Notice [NOT-OD-21-169](#)
- **August 5, 2021** - Update: Notification of Upcoming Change in Federal-wide Unique Entity Identifier Requirements. See Notice [NOT-OD-21-170](#)
- **April 20, 2021** - Expanding Requirement for eRA Commons IDs to All Senior/Key Personnel. See Notice [NOT-OD-21-109](#)
- **July 22, 2021** - Notice of Early Termination of NOT-OD-21-068. See Notice [NOT-OD-21-165](#).
- **July 20, 2021** - Notice of Special Interest (NOSI): Interventions Designed to Change the Culture to Mitigate or Eliminate Sexual Harassment in the Biomedical Research Enterprise. See Notice [NOT-OD-21-150](#).
- **July 19, 2021** - Notice of Change to Award Budget Limitations for PAR-21-269. See Notice [NOT-GM-21-055](#).
- **July 08, 2021** - Notice of Informational Webinar on PAR-21-269. See Notice [NOT-GM-21-054](#).

Funding Opportunity Announcement (FOA) Number

PAR-21-269

# Webinar Outline

---

## I. Program Overview

- A. Background & Purpose
- B. Key Information & Changes From the Previous FOA
- C. Program Considerations
- D. Examples of Possible Areas of Study

## II. Application Overview

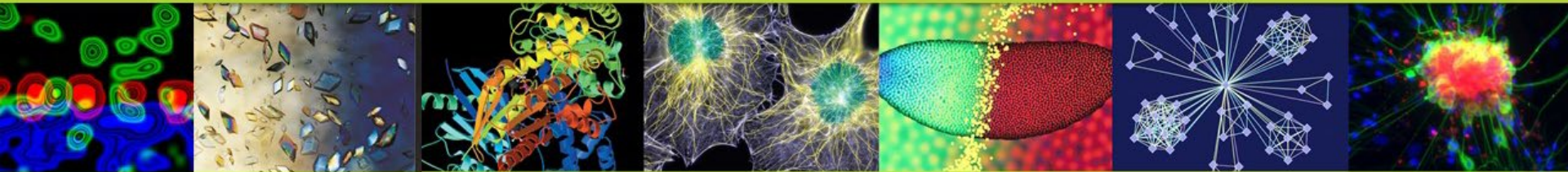
## III. Peer Review Overview

## IV. Budget Overview

## V. Additional Resources

## VI. Question and Answer Period

# Program Overview





# Program Background

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- NIH recognizes the need to enhance the participation of individuals that are nationally underrepresented in the biomedical research workforce.
  - See the [Notice of NIH's Interest in Diversity \(NOT-OD-20-031\)](#).
- NIGMS seeks to support a diversity of individuals from a variety of backgrounds at **multiple training and career stages** in a variety of institutions and educational settings.
- This includes a variety of programs designed to develop a diverse pool of scientists with the skills and motivation to transition into and continue in the biomedical research workforce.

# Program Background

---

- There is a wide variety of evidence-informed practices/interventions intended to strengthen the biomedical research workforce employed nation-wide.
- However, there is a clear need for more **hypothesis-driven research to test interventions for efficacy and replicability** across career stages and at a range of institution types and to **provide empirical evidence of the factors contributing to success.**
  - *For example*
    - How efficacious is the intervention? In what way(s)?
    - What elements make the intervention efficacious and to what extent?

# Purpose

---

- Through [PAR-21-269](#), NIGMS intends to support research that will contribute to the **evidence base** for effective, **high-impact, scalable interventions**, and to improve our **understanding of the elements contributing** to the advancement of individuals pursuing biomedical research careers.
- We encourage applications that propose research designed to **test interventions** to enhance research-oriented individuals' interest, motivation, persistence and preparedness for careers in the biomedical research workforce.
- Funded projects are expected to produce **research findings** that will guide the implementation of interventions in a variety of academic settings and career levels to enhance the diversity of the biomedical research workforce.

# Key Information for PAR-21-269

---

- Dates
  - All Application Due Dates: Oct 13, 2022 and Oct 13, 2023.
  - Scientific Merit Review: March. Council Review: May.
  - Earliest Start Date: July of 2022, 2023 and 2024.
- Application Types: New, Resubmission, or Renewal of PAR-19-295.
- Please submit a **Letter of Intent** no later than **30 days before** the application due date.
  - Refer to [PAR-21-269](#) for contents of the Letter of Intent.
- If requesting  $\geq$ \$500K direct cost/year, contact Program Officer **at least 6 weeks** before submitting your application for prior approval.

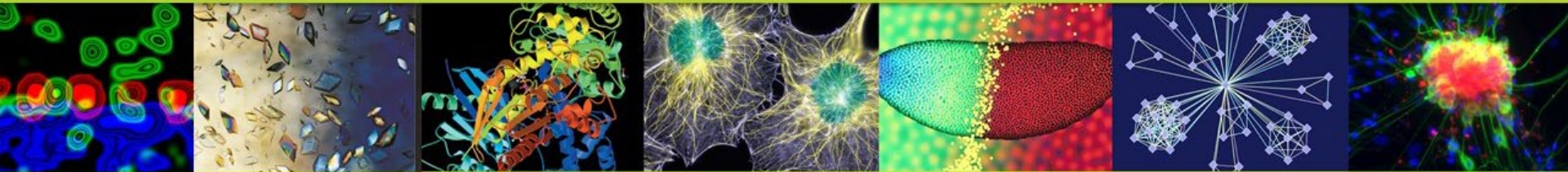
# Key Information for PAR-21-269

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- Applications that include the following will be deemed **non-responsive** to the FOA and will be administratively ***withdrawn***.
  - A plan to provide a training, mentoring, or networking service without a **testable hypothesis, intervention framework**, and/or a clearly articulated population with the **appropriate controls**.
  - An **intervention that is not scalable or practical** in a range of settings applicable to the broader biomedical research community.

**All prospective applicants are *HIGHLY ENCOURAGED* to send the Program Officers a one-page specific aims or summary well in advance of submission to help gauge responsiveness.**

# Program Considerations



# Research – Not (Only) Evaluation

---

- This funding opportunity is **not** designed to support evaluation of an existing or planned program(s).
- This funding opportunity is **not** designed to support a training program, curriculum development, or other activity **disguised as an experiment**.
- Examples of distinctions:
  - Research tends to
    - Test a hypothesis or theory – to add to a body of knowledge.
  - Evaluation tends to
    - Determine effectiveness, extent aims were conducted, and the outcomes – in order to improve a program.
    - Have stakeholders as the only source of information.
- There is overlap, but these proposals must include **rigorous experiments**.

# Robust Experimental Design

---

- As part of hypothesis testing, projects are expected to include appropriate controls or comparison groups.
- Results are expected to move beyond participant satisfaction, self-reporting of perceived skills gained, or self-reporting of effectiveness.
  - The interventions should be centered not only on psychosocial factors, but also on **outcomes** on the factors most likely to influence and foster a sustained career in the biomedical research workforce.
- As appropriate, determine effectiveness of the duration, frequency, and intensity of the intervention.
- Short, medium, and long-term effects of the intervention's efficacy.

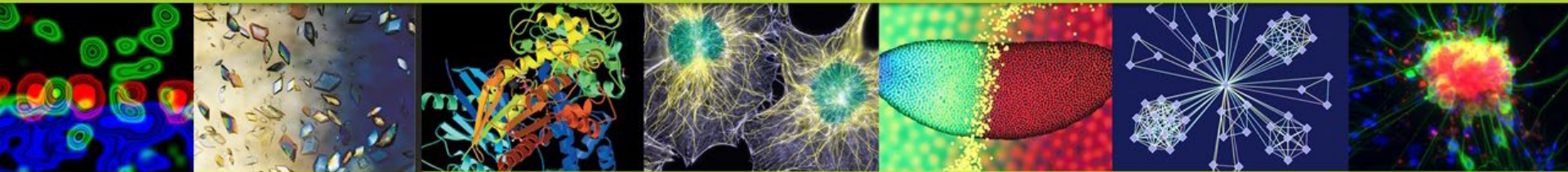


# Multidisciplinary Teams

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- These interventions and underlying assumptions are typically complex in nature.
- **It is expected that most studies will require multidisciplinary approaches.**
- We **strongly encourage a collaborative effort**, when necessary, among biomedical researchers, program administrators, educators, **psychologists, sociologists**, statisticians, and/or economists, etc. as appropriate.
- NOTE: For institutions/organizations proposing multiple PDs/PIs, you must include a Multiple PD/PI Leadership Plan.

# Examples of Possible Areas of Study



# A Few Possible Areas of Study

---

- Training, Mentoring, and Networking
  - Inform the community about why, how, and to what extent certain strategies and approaches have significant impacts on academic and professional success
- Psychosocial factors
  - How psychosocial factors influence persistence, advancement, and success. Should be linked to measurable outcomes
- Navigation of critical transition points
  - Underlying mechanisms that contribute to timely transitions and career progression
- Institutional factors that influence persistence
  - Tests of interventions to address institutional level structures and culture
- Harassment
  - Research designed to change the culture to mitigate or eliminate sexual and other forms of harassment
- Other areas are encouraged!

# Notice of Special Interest (NOSI)

---

- [NOT-OD-21-150](#)
- **Interventions Designed to Change the Culture to Mitigate or Eliminate Sexual Harassment in the Biomedical Research Enterprise**
- Purpose: To inform potential applicants of the NIH's interest in supporting research on interventions designed to change the culture to mitigate or eliminate sexual harassment in the biomedical research enterprise.
  - This notice aligns with the [Anti-Sexual Harassment](#) policy statements released by NIH as well as recommendations made in the December 2019 Report from the [Working Group to the Advisory Committee to the NIH Director \(ACD\)](#) on [Changing the Culture to End Sexual Harassment](#), which were endorsed by the ACD.
- If you are interested in submitting an application to this initiative, applicants should include “NOT-OD-21-150” (without quotation marks) in the Agency Routing Identifier field (box 4B) of the SF424 R&R form.

# What has been funded in the past

We encourage all potential applicants to review current and recently funded Research on Interventions awards.

- You can find links to project info in NIH RePORTER via [this NIGMS webpage](#), accessible from the main [Research on Interventions page](#).
- NOTE: these include multiple FOA reissuances, which have differences compared to the current FOAs.

Research on Interventions Awardees

California | Illinois | Massachusetts | Michigan | Missouri | Oklahoma | Wisconsin

CALIFORNIA

Mica Estrada  
University of California at San Francisco  
GM138700  
Title: Scaling Up Culturally Affirming Pathways to Biomedical Faculty Careers for Native Scholars

Project Info

ILLINOIS

Richard McGee  
Northwestern University at Chicago  
GM118184  
Title: Integrated Empirical and Translational Research to Diversify the Scientific Workforce

NIH RePORTER

Search Results > Project Details

Back to Search Results

Peer Mentoring to Overcome Obstacles for Midcareer Women Clinician-Scientists in Academic Medicine

Project Number: 1R01GM139842-01

Contact PI/Project Leader: JAGSI, RESHMA

Awardee Organization: UNIVERSITY OF MICHIGAN ARBOR

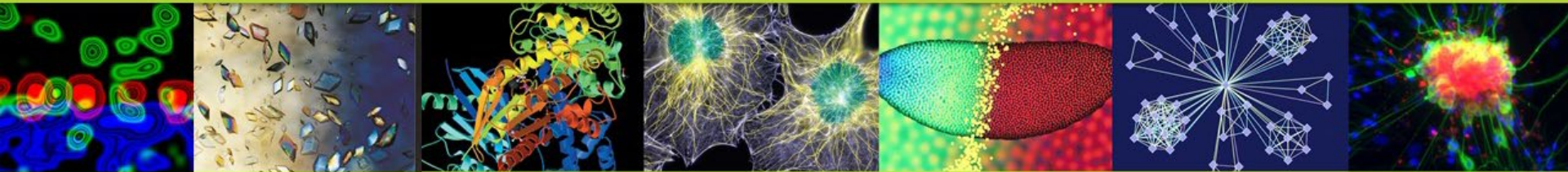
Description

Abstract Text

Abstract Despite long-standing gender parity in the number of medical students, women remain underrepresented in the senior physician-scientist workforce, and research suggests that the mid-career transition is a point at which many careers stall. We identify effective, scalable interventions to promote the careers of female physician-scientists throughout the career cycle, at the mid-career stage when they are positioned to ascend to senior leadership. We previously generated actionable insights based on the early career experiences of a national cohort of highly apt, research-oriented faculty members with clinical doctorates: recipients of K23 career development awards. This cohort has been uniquely informative given its relative homogeneity in terms of high motivation to pursue careers as clinician-researchers and the resources initially invested in supporting their advancement to 10 years after our original study, we now propose to evaluate the impact of an intervention for women in this national K-award

# Application: Research Strategy Section

For PAR-21-269



# Application Preparation

As your first step, thoroughly read through the FOA, any [Related Notices](#), and the [SF424 \(R&R\) Application Guide](#)

## Interventions FOA: [PAR-21-269](#)

Application Due Dates		
New	Renewal / Resubmission / Revision (as allowed)	AIDS
October 13, 2021	October 13, 2021	Not Applicable
October 13, 2022	October 13, 2022	Not Applicable
October 13, 2023	October 13, 2023	Not Applicable

**!** **NOTE:** This presentation **does NOT include a complete list** of all application materials, components or guidelines.

# Application: Page Limits (selected)

Section of Application	Page Limits*
Project Summary/Abstract	30 lines of text
Project Narrative	Three sentences
Introduction to Resubmission and Revision Applications (if applicable)	1
Specific Aims	1
Research Strategy	12
Biographical Sketch(es)	5 pages each
Plan for Enhancing Diverse Perspectives	1

**Reminder: if the page limits listed are different from the FOA, FOA instructions always supersede.**



# If Applying to the Sexual Harassment NOSI

- For funding consideration, applicants should include “NOT-OD-21-150” (without quotation marks) in the Agency Routing Identifier field (box 4B) of the SF424 R&R form

OMB Number: 4040-0001  
Expiration Date: 12/31/2022

<b>APPLICATION FOR FEDERAL ASSISTANCE SF 424 (R&amp;R)</b>		<b>3. DATE RECEIVED BY STATE</b> <input type="text"/>	<b>State Application Identifier</b> <input type="text"/>
<b>1. TYPE OF SUBMISSION</b> <input type="text"/>		<b>4. a. Federal Identifier</b> <input type="text"/>	<i>NOT-OD-21-150</i>
<b>2. DATE SUBMITTED</b> <input type="text"/>		<b>b. Agency Routing Identifier</b>	
<b>Applicant Identifier</b> <input type="text"/>	<b>c. Previous Grants.gov Tracking ID</b> <input type="text"/>		
<b>5. APPLICANT INFORMATION</b>		<b>Organizational DUNS:</b>	<input type="text"/>
Legal Name:	<input type="text"/>		
Department:	<input type="text"/>	Division:	<input type="text"/>

# Research Plan Form

[View Burden Statement](#)

## PHS 398 Research Plan

OMB Number: 0925-0001  
Expiration Date: 2/28/2023

### Introduction

1. Introduction to Application  
(for Resubmission and Revision  
applications)

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Research Plan Section

2. Specific Aims

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

3. \*Research Strategy

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

4. Progress Report Publication List

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Other Research Plan Section

5. Vertebrate Animals

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

6. Select Agent Research

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

7. Multiple PD/PI Leadership Plan

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

8. Consortium/Contractual Arrangements

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

9. Letters of Support

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

10. Resource Sharing Plan(s)

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

11. Authentication of Key Biological and/or  
Chemical Resources

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Appendix

12. Appendix

[Add Attachments](#)

[Delete Attachments](#)

[View Attachments](#)

- Research Plan Section
- Other Research Plan Section
- Appendix

# Research Plan Section

[View Burden Statement](#)

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(for Resubmission and Revision  
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[Add Attachment](#)

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### Appendix

12. Appendix

[Add Attachments](#)

[Delete Attachments](#)

[View Attachments](#)

- Research Plan Section
- 2. Specific Aims
- 3. Research Strategy

### 3. Research Strategy (*Page limit: 12 pages*)

---

Applications must follow all instructions in the Application Guide, and should include the following:

- What is the need for the intervention, the hypothesis being tested, and the knowledge gap that will be addressed?
- The assumptions that underlie your identified intervention and study design.
- The use of [rigorous and reproducible](#) experimental design and approach.
- What are the demographics and career stage of the population(s) included in your study?
  - It is important for applicants to provide a description of the qualities **and** issues of the population(s) selected for study.

### 3. Research Strategy (*Page limit: 12 pages*)

---

- A description of the matched controls and/or comparison groups that will be used in the study.
- What are the recruitment strategies and methods to sustain the interest of participants and the control/comparison groups over the course of the study?
- Description of data analysis methodology, including sample size, statistical power, and analytic framework/statistical analyses.
- Description of data collection, handling, and storage methods.
- Dissemination plans
  - Describe a plan to disseminate the research findings to the community (*i.e.* professional meeting presentations, publications, etc.).
  - Describe plans to make the intervention methods, tools, instruments, and resources available to the broader biomedical research workforce community.

### 3. Research Strategy (*Page limit: 12 pages*)

---

- Details on the intervention!
  - Describe the duration, frequency, and intensity of the intervention and whether there will be reinforcement sessions.
  - Describe how the intervention will be cost-effective, practical, realistic, scalable, and sustainable at a broad range of institutions or settings.
- A detailed timeline with quantitative measures for achieving annual milestones that are integral to the success of the project.
  - Include the plans for identifying impediments and critical decision points that may require a revision in the work plan.
  - Why is this important?- NIGMS program staff will use these milestones to assess progress. Continued funding on the program is based upon the assessment of progress on an annual basis.

# Research Plan Form

[View Burden Statement](#)

## PHS 398 Research Plan

OMB Number: 0925-0001  
Expiration Date: 2/28/2023

- **Other Research Plan Section**

### Introduction

1. Introduction to Application  
(for Resubmission and Revision  
applications)

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Research Plan Section

2. Specific Aims

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

3. \*Research Strategy

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

4. Progress Report Publication List

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Other Research Plan Section

5. Vertebrate Animals

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

6. Select Agent Research

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

7. Multiple PD/PI Leadership Plan

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

8. Consortium/Contractual Arrangements

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

9. Letters of Support

[Add Attachment](#)

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[View Attachment](#)

10. Resource Sharing Plan(s)

[Add Attachment](#)

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[View Attachment](#)

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Chemical Resources

[Add Attachment](#)

[Delete Attachment](#)

[View Attachment](#)

### Appendix

12. Appendix

[Add Attachments](#)

[Delete Attachments](#)

[View Attachments](#)

# Other Research Plan/SF424 (R&R)

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## 8. Consortium/Contractual Arrangements (SF424 page 152)

- A consortium is if any outside organization will perform any grant-supported research activities.
- If you have consortium/contracts in your budget, you must complete and include an arrangement attachment.
- Must explain the programmatic, fiscal, and administrative arrangements between the applicant organization and the consortium organization(s).
- This must be included as a PDF attachment. DO NOT include in the Appendix.

## 9. Letters of Support (SF424 page 155)

- Applicant may include any letters of support that: are necessary to demonstrate the support of consortium participants and collaborators, stipulate expectations for co-authorship, or other content.
- Letters must be combined into a single PDF and attached to the application. DO NOT include the letters in the Appendix.

*See "Other Research Plan section" in the SF424 Application Guide for additional information (begins on page 141).*



# 10. Resource Sharing Plan

---

- Applicants ***must comply*** with the instructions for the Resource Sharing Plan as provided in SF424 Application Guide
- The FOA also provides modifications that apply:
  - All applications, regardless of the amount of direct costs requested for any one year, should address a Data Sharing Plan.
  - Applications are expected to include a software dissemination plan ***if support*** for development, maintenance, or enhancement of software ***is requested*** in the application.

***Please contact program PO's with questions.***

# Research Plan Form

View Burden Statement

## PHS 398 Research Plan

OMB Number: 0925-0001

Expiration Date: 2/28/2023

### Introduction

1. Introduction to Application  
(for Resubmission and Revision  
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Add Attachment

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View Attachment

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Add Attachment

Delete Attachment

View Attachment

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Add Attachment

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4. Progress Report Publication List

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View Attachment

11. Authentication of Key Biological and/or  
Chemical Resources

Add Attachment

Delete Attachment

View Attachment

### Appendix

12. Appendix

Add Attachments

Delete Attachments

View Attachments

## Appendix

- Per the FOA, only limited Appendix materials are allowed. Follow all instructions for the Appendix as described in the SF424 (R&R) Application Guide, page 158.
- Applications **will be withdrawn** and not reviewed if they do not follow the appendix requirements in the Application Guide or the FOA.

# Additional Application Materials

## R&R Other Project Information Form

### RESEARCH & RELATED Other Project Information

OMB Number: 4040-0001  
Expiration Date: 12/31/2022

1. Are Human Subjects Involved?  Yes  No

1.a. If YES to Human Subjects

Is the Project Exempt from Federal regulations?  Yes  No

If yes, check appropriate exemption number.  1  2  3  4  5  6  7  8

If no, is the IRB review Pending?  Yes  No

IRB Approval Date:

Human Subject Assurance Number:

2. Are Vertebrate Animals Used?  Yes  No

2.a. If YES to Vertebrate Animals

Is the IACUC review Pending?  Yes  No

IACUC Approval Date:

Animal Welfare Assurance Number:

3. Is proprietary/privileged information included in the application?  Yes  No

4.a. Does this Project Have an Actual or Potential Impact - positive or negative - on the environment?  Yes  No

4.b. If yes, please explain:

4.c. If this project has an actual or potential impact on the environment, has an exemption been authorized or an environmental assessment (EA) or environmental impact statement (EIS) been performed?  Yes  No

4.d. If yes, please explain:

5. Is the research performance site designated, or eligible to be designated, as a historic place?  Yes  No

5.a. If yes, please explain:

6. Does this project involve activities outside of the United States or partnerships with international collaborators?  Yes  No

6.a. If yes, identify countries:

6.b. Optional Explanation:

7. Project Summary/Abstract

8. Project Narrative

9. Bibliography & References Cited

10. Facilities & Other Resources

11. Equipment

12. Other Attachments

## Are Human Subjects Involved?

- If activities involving human subjects are planned at any time during the proposed project, check "Yes".
- MOST applications WILL involve human subjects research.
- Check "Yes" even if the project is exempt from Federal regulations.
- Visit this [link](#) to learn more about human subjects research and to see if you meet the criteria for [human subject exemptions](#).
- See page 55 in the SF424 Application Guide for more information.

# Additional Application Materials

## Section 2 - Study Population Characteristics

### 2.1. Conditions or Focus of Study

### 2.2. Eligibility Criteria

2.3. Age Limits      Minimum Age   Maximum Age

2.3.a. Inclusion of Individuals Across the Lifespan

2.4. Inclusion of Women and Minorities

2.5. Recruitment and Retention Plan

2.6. Recruitment Status

2.7. Study Timeline

2.8. Enrollment of First Participant

## Study Population Characteristics

- All of Section 2 is required for all human subject studies unless you selected Exemption 4.
- See page 248 in the SF424 Application Guide for more information.
- Where appropriate, attach information as a PDF File.

# Plan for Enhancing Diverse Perspectives

*(Page limit: 1 page)*

---

- All applications must include a Plan for Enhancing Diverse Perspectives (PEDP)
  - **Applications that do not include this attachment will be considered incomplete and will not be reviewed.**
- The PEDP:
  - Must include a summary of strategies to advance the scientific and technical merit of the proposed projects through expanded inclusivity.
  - Incorporate elements with relevance to any review criteria, including significance, innovation, investigator(s), environment, and approach (*e.g., to what extent do the efforts described in the PEDP further the significance of the project?*)
  - Will vary depending on the scientific aims, expertise required, the environment and performance site(s), as well as how the project aims are structured

# Plan for Enhancing Diverse Perspectives

## (Page limit: 1 page)

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- Examples of items that *could* be part of the PEDP:
  - Discussion of engagement with different types of institutions and organizations (e.g., research-intensive, undergraduate-focused, minority-serving, community-based).
  - Description of any planned partnerships that may enhance geographic and regional diversity.
  - Plan to utilize the project infrastructure (i.e., research and structure) to support career-enhancing research opportunities for diverse junior, early- and mid-career researchers.
  - Plan to develop transdisciplinary collaboration(s) that require unique expertise and/or solicit diverse perspectives to address research question(s).
  - Outreach and planned engagement activities to enhance recruitment of individuals from diverse groups as research participants including those from under-represented backgrounds.

We encourage applicants to read through the FOA for more information on the PEDP

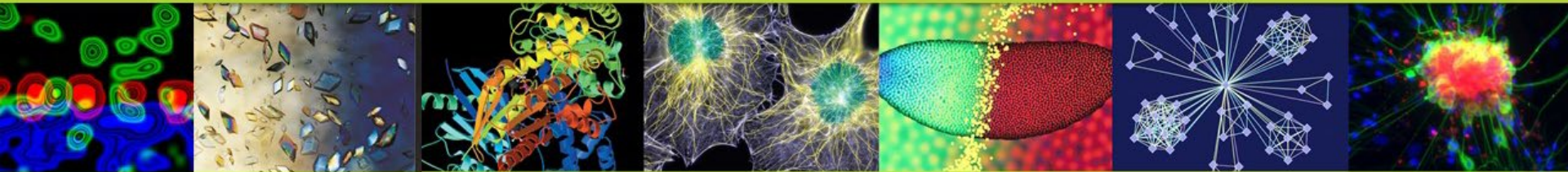
# Non-responsive Applications

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Applications that include the following will be deemed ***non-responsive*** to this FOA and will be ***administratively withdrawn***.

- A plan to provide a training, mentoring, or networking service without a testable hypothesis, intervention framework, and/or a clearly articulated population with the appropriate controls.
- An intervention that is not scalable or practical in a range of settings applicable to the broader biomedical research training community.

# Peer Review Overview





# Review of Applications

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- Scored Review Criteria (each item gets a score)
  - Significance
  - Investigator(s)
  - Innovation
  - Approach
  - Environment

Pay special attention to "Specific to this FOA" criteria
- Additional Review Criteria (no separate score but contributes to Final)
  - Human Subjects, Inclusion Plans, Vertebrate Animals, Biohazards
- Additional Review Considerations (not part of Final score)
  - Resource Sharing Plans, Authentication of Resources, Budget

# Review of Applications

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Reviews will be managed by the NIGMS Scientific Review Branch.

## REMINDERS:

- Be sure to comply with all FOA instructions
  - Applications missing any required components, or that include any additional materials, or that exceed page limits, etc. will be withdrawn without review.
- Submit early!!!

# FOA Specific Review Criteria

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## Investigator(s)

- Are the PD(s)/PI(s), collaborators, and other researchers well suited to the project? If Early Stage Investigators or those in the early stages of independent careers, do they have appropriate experience and training? If established, have they demonstrated an ongoing record of accomplishments that have advanced their field(s)? If the project is collaborative or multi-PD/PI, do the investigators have complementary and integrated expertise; are their leadership approach, governance and organizational structure appropriate for the project?
- **Specific to this FOA:** Do the PDs/PIs have the time to commit sufficient effort to ensure the success of the research effort, given their other professional obligations? To what extent will the efforts described in the Plan for Enhancing Diverse Perspectives strengthen and enhance the expertise required for the project?

## Innovation

- Does the application challenge and seek to shift current research or clinical practice paradigms by utilizing novel theoretical concepts, approaches or methodologies, instrumentation, or interventions? Are the concepts, approaches or methodologies, instrumentation, or interventions novel to one field of research or novel in a broad sense? Is a refinement, improvement, or new application of theoretical concepts, approaches or methodologies, instrumentation, or interventions proposed?
- **Specific to this FOA:** To what extent will the efforts described in the Plan for Enhancing Diverse Perspectives meaningfully contribute to innovation?

# Approach

- Are the overall strategy, methodology, and analyses well-reasoned and appropriate to accomplish the specific aims of the project? Have the investigators included plans to address weaknesses in the rigor of prior research that serves as the key support for the proposed project? Have the investigators presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed? Are potential problems, alternative strategies, and benchmarks for success presented? If the project is in the early stages of development, will the strategy establish feasibility and will particularly risky aspects be managed? Have the investigators presented adequate plans to address relevant biological variables, such as sex, for studies in vertebrate animals or human subjects?
- If the project involves human subjects and/or NIH-defined clinical research, are the plans to address 1) the protection of human subjects from research risks, and 2) inclusion (or exclusion) of individuals on the basis of sex/gender, race, and ethnicity, as well as the inclusion or exclusion of individuals of all ages (including children and older adults), justified in terms of the scientific goals and research strategy proposed?
- **Specific to this FOA:** Does the application describe a robust scientific approach to test assumptions and hypotheses that provide an understanding of the factors that contribute to an effective intervention designed to increase and sustain the interest, motivation, and preparedness for careers in the biomedical research workforce of individuals from diverse backgrounds (e.g., individuals underrepresented in the biomedical research workforce)? Does the research include appropriate outcome measures beyond participant satisfaction, self-reporting of perceived skills gained, or self-reporting of effectiveness? Does the application describe a robust research plan that goes beyond an evaluation of a training or mentoring program? How likely is it that the proposed research will generate evidence that will lead to meaningful conclusions? Will the proposed project provide the scientific community with sound evidence of the immediate and long-term impact of the intervention(s) with respect to efficacy and sustainability?
- If applicable, will the proposed studies inform the field about the duration, frequency, and intensity of intervention effects, and whether those effects can be enhanced by reinforcement sessions?
- Is the intervention cost-effective, practical, realistic, scalable and sustainable in a broad range of settings or institutions?
- For the participants and control/comparator groups, are the planned recruitment, retention, and follow-up activities adequate to ensure the intervention or study can be completed and assessed?
- Are the timeline and milestones associated with the Plan for Enhancing Diverse Perspectives well-developed and feasible?

## Environment

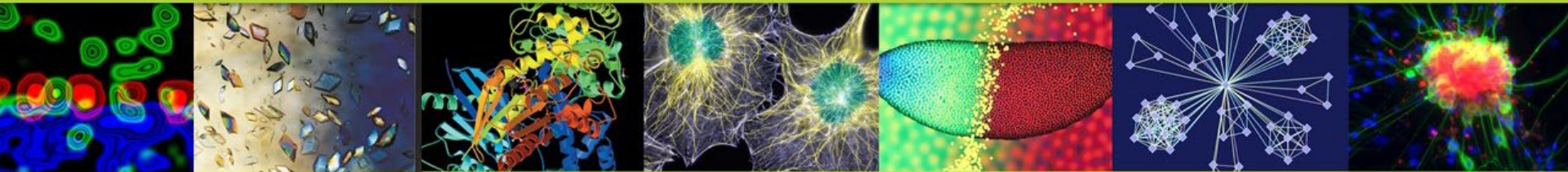
- Will the scientific environment in which the work will be done contribute to the probability of success? Are the institutional support, equipment and other physical resources available to the investigators adequate for the project proposed? Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?
- **Specific to this FOA:** To what extent will features of the environment described in the Plan for Enhancing Diverse Perspectives (e.g., collaborative arrangements, geographic diversity, institutional support) contribute to the success of the project?

# Common Issues

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- Pre-review
  - Missing PEDP
  - Incorrect Letter of Support
- During review
  - Training activity without rigorous research plan
  - Generalizability or scaling
  - Fidelity and/or confounding
  - Insufficient statistical power to determine impact of limited/small scale/very brief interventions

# Budget Overview



# Change to Award Budget Limitations

July 19, 2021 - Notice of Change to Award Budget Limitations for PAR-21-269. See Notice [NOT-GM-21-055](#).

- **[NOT-GM-21-055](#): Notice of Change to Award Budget Limitations for PAR-21-269**
- **Application budgets are *not limited* but should reflect the actual needs of the proposed project.**
- **For budget requests of \$500,000 or more for direct costs in any year (excluding consortium F&A), applicants must contact the current Program Officer contact(s) at least 6 weeks before submitting the application and follow the Policy on the Acceptance for Review of Unsolicited Applications that Request \$500,000 or More in Direct Costs as described in the SF424 (R&R) Application Guide.**



# Budget Information

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- F&A can be requested at negotiated institutional rate agreement.
- There are no FOA designated unallowable costs, however:
  - Refer to sections 7.9.1, [Select Items of Cost](#), and 7.2, [The Cost Principles](#), of the NIH Grants Policy Statement.
  - All items of Direct Cost must be specifically for an activity within the described scope of the proposed project.

# Budget Formats

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- Use the **Modular Budget Form** if requesting  $\leq$ \$250K Direct Costs per year
- Use the detailed **R&R Budget Format** if requesting  $>$ \$250K Direct Costs per year

# PHS 398 Modular Budget Form

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- Is simplified; detailed categorial information is not submitted in the modular format.
- Request total direct costs (**in modules of \$25,000**), reflecting appropriate support for the project.
- List all personnel, including names, percent effort (use the Person Months metric), and roles on the project, **only under the budget justification**.
- **Do not provide individual salary information.**
- Modular Budget Form Instructions under [Section G.320](#) of the SF-424 Instruction Set.

# PHS 398 Modular Budget Form

View Burden Statement

## PHS 398 Modular Budget

OMB Number: 0925-0001  
Expiration Date: 3/31/2020

Budget Period: 1				
	Start Date: <input style="width: 80%;" type="text"/>	End Date: <input style="width: 80%;" type="text"/>	<input type="button" value="Next Period"/>	
<b>A. Direct Costs</b>			Funds Requested (\$)	
			Direct Cost less Consortium Indirect (F&A)	<input style="width: 80%;" type="text" value="0.00"/>
			Consortium Indirect (F&A)	<input style="width: 80%;" type="text"/>
			Total Direct Costs	<input style="width: 80%;" type="text" value="0.00"/>
<b>B. Indirect (F&amp;A) Costs</b>				
	Indirect (F&A) Type	Indirect (F&A) Rate (%)	Indirect (F&A) Base (\$)	Funds Requested (\$)
<input type="checkbox"/>	<input style="width: 95%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>
<input type="button" value="Add Additional Indirect Cost"/>				
Cognizant Agency (Agency Name, POC Name and Phone Number)		<input style="width: 95%;" type="text"/>		
Indirect (F&A) Rate Agreement Date		Total Indirect (F&A) Costs		
<input style="width: 80%;" type="text"/>		<input style="width: 80%;" type="text"/>		
<b>C. Total Direct and Indirect (F&amp;A) Costs (A + B)</b>				Funds Requested (\$)
				<input style="width: 80%;" type="text" value="0.00"/>
<input type="button" value="Add Period"/>				

# "Detailed" R&R Budget Form

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- The R&R (Research and Related) requires a detailed itemized listing of all items of Direct Cost over a minimum of 3 budget pages per year (sections A through K).
- Also requires a full accompanying budget justification **with individual salary information.**
- R&R Form Instructions under [Section G.300](#) of the SF-424 Instruction Set.

# R&R Budget Form (sections A & B)

## RESEARCH & RELATED BUDGET - Budget Period 1

Delete Period

OMB Number: 4040-0001  
Expiration Date: 10/31/2019

ORGANIZATIONAL DUNS:  Enter name of Organization:

Budget Type:  Project  Subaward/Consortium Budget Period: 1 Start Date:  End Date:

### A. Senior/Key Person

Prefix	First	Middle	Last	Suffix	Base Salary (\$)	Months			Requested Salary (\$)	Fringe Benefits (\$)	Funds Requested (\$)
						Cal.	Acad.	Sum.			
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Project Role:

Add Additional Key Person

Additional Senior Key Persons:  Add Attachment Delete Attachment View Attachment Total Funds requested for all Senior Key Persons in the attached file

Total Senior/Key Person

### B. Other Personnel

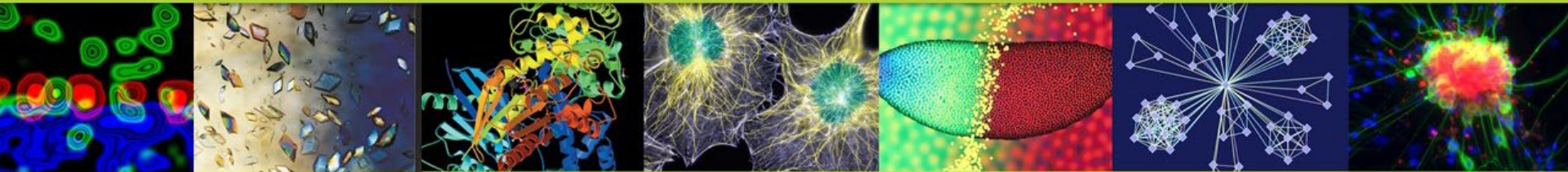
Number of Personnel	Project Role	Months			Requested Salary (\$)	Fringe Benefits (\$)	Funds Requested (\$)
		Cal.	Acad.	Sum.			
<input type="text"/>	Post Doctoral Associates	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Graduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Undergraduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Secretarial/Clerical	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Add Additional Other Personnel

Total Number Other Personnel Total Other Personnel

Total Salary, Wages and Fringe Benefits (A+B)

# Related Programs of Interest



# NIGMS MIRA (R35)

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- R35, Outstanding Investigator Award (Maximizing Investigators' Research Award; MIRA)
  - Support for the research in an investigator's laboratory that falls within the mission of NIGMS. Goal to increase the efficiency of NIGMS funding by providing investigators with greater stability and flexibility, thereby enhancing scientific productivity and the chances for important breakthroughs.
  - Could include research relevant to PAR-21-269
- [The NIGMS MIRA website](#) has more information, FOAs, and the Program Officers to contact for questions.



# SCISIPBIO Program

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- **Science of Science Policy Approach to Analyzing and Innovating the Biomedical Research Enterprise**
- Jointly supported by NIGMS and the Science of Science: Discovery, Communication, and Impact ([SoS:DCI program](#)) of the National Science Foundation (NSF)
- Supports research that advances the scientific basis of science and innovation policy, with a focus on the biomedical sciences.
- More information and program contacts on the [NIGMS SCISIPBIO webpage](#)

# Other Programs of Interest

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- If you are interested in studying interventions within the **health practitioner workforce**, there are other federal agencies who offer funding opportunities that may be of interest:



# Applicant next steps

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- All prospective applicants are ***HIGHLY ENCOURAGED*** to send the Program Officers a one-page specific aims or summary.
- At least 6 weeks before the application due date, applicants are encouraged to submit a Letter of Intent to the Program Officers.
- For budget requests of \$500,000 or more for ***direct costs*** in any year (excluding consortium F&A), applicants must contact a Program Officer at least 6 weeks before submitting the application.

# Your Question and Answers

**Remember to Contact the Program Officers Before Applying!**

sydella.blatch@nih.gov  
shakira.nelson@nih.gov

Program Webpage:

<https://www.nigms.nih.gov/training/Pages/Interventions.aspx>

