



FACULTY MENTORED RESEARCH PROGRAM

SUMMER RESEARCH GRANT

Due October 25, 2021

Contact Information

1. Title of Project: (Limit to 80 characters, includes spaces)			
2a. Project Leader's (PL) Name:		2b. Mentor's Name:	
2c. Degrees	2d. eRA Commons Name	2e. Degrees	2f. eRA Commons Name
3a. PL's Position Title:		3b. Mentor's Position Title:	
4a. PL's Department:		4b. Mentor's Department:	
5a. PL's Organization & Mailing Address:		5b. Mentor's Organization & Mailing Address:	
6a. PL's Telephone:		6b. Mentor's Telephone:	
7a. PL's Email Address:		7b. Mentor's Email Address:	
8. Administrative Official to be notified if award is made:			
Name:			
Title:			
Mailing Address:			
Tel:			
Email:			

- I understand that if I am selected to receive a summer research award, I will not have any teaching responsibilities at my institution during the award period; my effort commitment will be 100%. The proposed Time Period for the Award is 10 weeks during the summer months.

Signatures: PL: _____ Date: _____
 Mentor: _____ Date: _____
 PL Institutional Signing Official: _____ Date: _____

Funding Opportunity Announcement (FOA): Summer Research Grant

The Arkansas IDeA Network of Biomedical Research Excellence (INBRE) invites faculty with research interests in the biomedical sciences at predominately-undergraduate institutions (PUIs) to apply to the Faculty Mentored Research Program of the Arkansas INBRE Developmental Research Project Program (DRPP).

This FOA is intended to strengthen the science departments at the PUIs by providing funding for biomedical research performed by faculty and students.

The research theme of the AR INBRE is **Cellular Signaling, Growth, and Differentiation**. Make sure that your research topic falls under this theme. If you have any questions, contact Dr. Jerry Ware, Director of the Developmental Research Project Program (DRPP) of the Arkansas INBRE (jware@uams.edu).

The funding of Summer Research Grants is intended to help faculty at the PUIs in Arkansas to either launch a new research project or make significant progress with ongoing research that would not be possible with teaching commitments during the academic year. A recipient of a Summer Research Grant or Project Leader (PL) commits 100% effort to full-time research during the 10-week summer period, as guaranteed by a letter from his or her institution. Work may be done in the PL's or Mentor's laboratory, or both; and undergraduate student involvement in the research is mandatory.

We anticipate awarding 6 Summer Research Grants. Each PL is required to identify a research Mentor, from one of the two Lead Institutions, UAMS or UAF, with expertise in the scientific area of the proposed research. If you have any questions or need help identifying a suitable Mentor, please contact Dr. Jerry Ware, Director of the DRPP of the Arkansas INBRE.

Eligible applicants include full-time permanent faculty members with an unmodified title at the rank of Assistant Professor and higher from the PUIs in Arkansas. Investigators from the University of Arkansas, Fayetteville, and the University of Arkansas for Medical Sciences are not eligible to apply. All applicants must have attended an INBRE-sponsored Grant Writing Workshop. If you have not attended one of the Grant Writing Workshops, contact Dr. Ware for further instructions.

Funding Period: May 2022 – August 2022

Minimum Effort: 100% Summer Months (2.3 calendar months) Please note that a change in effort, after the award has been made, may result in forfeiture of the award.

Undergraduate Student Involvement: Mandatory

Maximum Request: \$28,000

Application Due Date: October 25, 2021

All proposals must be submitted by the signing official of your institution. Completed applications (forms, narrative, references, support letters, IRB/IACUC approvals, etc.) should be sent via e-mail as a **single** PDF file to INBREApplication@uams.edu. Proposals submitted directly by faculty will not be accepted.

NIH Instructions and Fillable Form Pages: <http://grants1.nih.gov/grants/funding/phs398/phs398.html>

Part 1 – NIH Face Page – please make sure all boxes are checked and it is signed.

Part 2 – Project Leader & Mentor Contact Information ([INBRE Form](#))

Part 3 – NIH Form Page 2: Summary, Relevance, Project Performance Sites, Key Personnel, Other Significant Contributors & Use of Human Embryonic Stem Cells

Part 4 – Form Page 3: Research Grant Table of Contents

Part 5 – NIH Form Page 4: Detailed Budget for Initial Period

1. Allowable Costs include:
 - i. Salary Support (faculty & students)
 - ii. Research Supplies
 - iii. Travel

- iv. Other Costs as justified (e.g., animal per diems, core facility charges)
2. Budget Justification – Please **justify in detail** all proposed expenses. See NIH Forms 398 Instructions <http://grants1.nih.gov/grants/funding/phs398/phs398.html> page 36 for detailed budget justification requirements. All items requested in the budget are to be used during the award period. Please use the *Continuation Format Page* for the budget justification.

Part 6 – NIH Biographical sketches – For Project Leader, Mentor, and other Significant Contributors. Make sure that each personal statement addresses the research in the proposal. Please use the NEW FORMAT (see NOT-OD-21-073).

Part 7 - Resources & Major Equipment 1-page limit, see 398 Instructions for detail on how to complete this section

1. Identify the facilities to be used (laboratory, clinical, animal, computer, office, other as needed for the project).
2. Describe the scientific environment of your institution and how it will contribute to the probability of success (e.g., institutional support, physical resources, and intellectual rapport) of your project.
3. For Early-Stage Investigators, describe institutional investment in the success of the investigator.
4. Describe any special facilities used for working with biohazards or other potentially dangerous substances.

Part 8 – NIH Checklist Form Page

Part 9 – Research Plan – Use NIH Continuation Form Page. **5-page limit, not including the Specific Aims page**

- A. Specific Aims – **1-page limit**
- B. Significance
- C. Innovation – It is highly recommended to limit the Significance and Innovation to 1 single page for both sections.
- D. Progress report for previously supported Arkansas INBRE research (do not exceed 1 page) – The following information should be included.
 1. Project period beginning and ending dates.
 2. Summary of the importance of your findings in relation to your Specific Aims.
 3. Account of outcomes, such as publications and/or meeting presentations.
- E. Approach
 1. Subsections are highly recommended for each Specific Aim.
 - Rationale and Overall Strategy
 - Experimental Design and Methods
 - Expected Results/Outcomes
 - Potential Problems/Alternative Strategies
 2. Preliminary Studies for New Applications – This section may appear before the Research Strategy or if within in it, does not need to be a separate section.
 3. Undergraduate Student Participation – Include a paragraph on how you will incorporate undergraduate student participation.
 4. Future Plans/Goals – Please include a description of how you plan to use the results from this research: e.g., as preliminary data for a grant proposal to NIH or other agencies or to obtain research support from your home institution.

The following sections do not count towards the Research Plan page limit.

Part 10 – Bibliography / Literature Cited / References (This section does not count toward the page limit.)

Part 11 - Investigators **1-page limit**

A. The Project Leader

1. Project Leader's Background, Career Goals and Objectives, Scientific Biography
 - a. Describe short-term and long-term career goals (2 years vs. 5-10 years)
 - b. Describe role of grant award in attaining career goals

2. Career Development/Training Activities during Award Period

B. Mentor/Collaborator - Mentor's Background, Scientific Biography

1. Describe Mentor's role in helping PL to attain career goals

Part 12 – Vertebrate Animal Section - For details of these sections, please see the instructions <http://grants1.nih.gov/grants/funding/phs398/phs398.html>.

Vertebrate Animal Care and Welfare

- i. Use of Animals
- ii. Justification– for use of particular species and for numbers of animals proposed.
- iii. Veterinary Care
- iv. Procedures
- v. Euthanasia

Part 13 – Select Agent Research

Part 14 – Supporting Materials

1. Letter of Support from the Project Leader's Institution
2. Letter of Collaboration/Support from your Mentor
3. Copy of IRB or IACUC Letter of Approval, if applicable
4. Personal Data Sheet (see Attachment 1). Place this form at the end of the application.

Part 15 – Resource Sharing Plan(s)

Part 16 - Authentication of Key Biological and/or Chemical Resources

Part 17 - PHS Human Subjects and Clinical Trials Information

Part 18 – **NEW** Other Support

Using the new NIH format please include a signed copy of your Other Support with your application. You can find samples of the new format at: <https://grants.nih.gov/grants/forms/othersupport.htm>.

Attachment 1 – Personal Data

Place this form at the end of the application.

Principal Investigator	Mentor
1. Title of Project:	
2a. PL's Name:	2b. Mentor Name:
Please Note: this section is OPTIONAL your response will be used for statistical purposes only.	
4a. Gender: <input type="checkbox"/> Female <input type="checkbox"/> Male	4b. Gender: <input type="checkbox"/> Female <input type="checkbox"/> Male
5a. U.S. Citizen: Yes <input type="checkbox"/> No <input type="checkbox"/>	5b. U.S. Citizen: Yes <input type="checkbox"/> No <input type="checkbox"/>
6a. Ethnic/Racial Status Please check a category, which describes your ethnic/racial status <input type="checkbox"/> American Indian or Alaskan Native <input type="checkbox"/> Asian <input type="checkbox"/> Black, not of Hispanic Origin <input type="checkbox"/> Hispanic <input type="checkbox"/> Pacific Islander <input type="checkbox"/> White, not of Hispanic Origin	6b. Ethnic/Racial Status Please check a category, which describes your ethnic/racial status <input type="checkbox"/> American Indian or Alaskan Native <input type="checkbox"/> Asian <input type="checkbox"/> Black, not of Hispanic Origin <input type="checkbox"/> Hispanic <input type="checkbox"/> Pacific Islander <input type="checkbox"/> White, not of Hispanic Origin