

ROSE (Research on STEM Education) Fellowship Application Call

ABOUT THE ROSE PROGRAM

With continued collaboration from educators across the United States, the Research on STEM Education (ROSE) network seeks to advance Science, Technology, Engineering and Mathematics (STEM) education via promotion of evidence-based teaching and scholarship. Specifically, the ROSE network facilitates a seminar series focused on the above mission; provides resources, professional development, and mentorship to current and future faculty; and provides an instructor fellowship program intended to help educators enhance their course plans by focusing on learning, motivation, and pedagogical strategies for the modern science classroom. By seeding a culture of STEM education research and reform at the "grassroots" level of collegiate instructors, ROSE is creating a growing and persistent impact on undergraduate biology education.

ABOUT THE INSTRUCTOR FELLOWSHIP PROGRAM

ROSE Fellows will have the opportunity to develop activities and/or reform their courses to better enhance undergraduate education in their classroom by participating in a year-long, mentored program facilitated by the ROSE leadership team. In the fall semester, fellows meet each month to discuss research, participate in professional development, and collaborate to achieve shared goals. Fellows are eligible to receive a fellowship stipend of \$1,500 per year and an additional \$500 for course supplies/materials to support their activity development and/or course reform efforts. Fellows work one-on-one with a ROSE faculty collaborator to finalize a course redesign plan and course budget. Once you are a ROSE fellow, you are a member of our community. During and in the post fellowship period, there will be opportunities to publish with ROSE collaborators and funds available to attend conferences.

Requirements for ROSE fellows:

- **September 2020 – December 2020:** Participate in a one-hour Zoom call each month to discuss teaching, learning and course plans with other ROSE fellows as well as meet with one or more members of a ROSE faculty collaborator to work on your course development plan.
- Submit a course redesign plan and course budget by **January 10th, 2021**
- **January 2021 – March 2021:** Meet with one or more members of a ROSE faculty collaborator for one hour each month to discuss the implementation process for your activity and/or course reform effort
- Attend at least two ROSE 2020-2021 seminars, accessible via Zoom
- Submit two classroom audio recordings and reflections.
- Submit course redesign assessment data and complete a fellowship survey.

Application Questions

We anticipate giving 6 fellowships in Spring 2020 to support instructors in creating a course redesign plan for a Spring 2021 or Fall 2021 course. A course redesign plan would take a course you have previously taught and use evidence-based learning strategies to improve student learning.

Course Redesign Plan Questions:

1. What course do you intend on focusing on in this fellowship and why?
2. What is rewarding and frustrating about teaching this course?
3. What would you like to do differently in this course?
4. Describe a specific activity in this course that you would like to develop.
5. What barriers do you foresee in redesigning a course, and what resources do you need to overcome them?
6. How will you assess the effectiveness of your course revision in improving student outcomes?
7. The fellowship provides a stipend for each individual but it also includes a \$500 budget allowance for course improvements. How would you use this money to enhance your course?

Teaching and Interest Questions:

8. What experience do you have with evidence-based learning or active learning approaches in the classroom?
9. As a fellow you will explore the literature with a community of fellows, what teaching and learning topics are you interested in exploring?
10. What would you want to get out of a fellowship to help support an enhancement of a course you plan?
11. Describe your education-based objectives that you hope to achieve in this fellowship program.
12. The program provides opportunities for fellows to work one-on-one with a professional biology education to help with the course design plan. If chosen, what would you want to get out of this collaborative experience?

Applicants fill out this application and email it to pcarrol5@uab.edu by April 30th, 2020 and put in the subject line "Rose Fellow 2020".