

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 Fellowships are available to all college instructors, but we are especially interested in community college faculty and faculty at primarily undergraduate institutions without substantial federal research funding. 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. Throughout the year, fellows also meet monthly to work one-on-one with the ROSE postdoctoral fellow 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 2021 – December 2021:** 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 course redesign goals by **January 10th, 2022**
- **October 2021 – March 2022:** Meet with one or more members of the ROSE faculty mentoring team for one hour each month to discuss the implementation process for your activity and/or course reform effort
- Submit course redesign plan and course budget by **April 10th, 2022**
- 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 10 fellowships in Spring 2021 to support instructors in creating a course redesign plan for a Fall 2022 or Spring 2023 course. A course redesign plan would take a course you have previously taught and use evidence-based learning strategies to improve student learning. **Applicants should submit a CV as well as a document answering the following questions via email to Dr. Jeffrey Morris (evolve@uab.edu) by May 1, 2021.**

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 in biology education to help with the course design plan. If chosen, what would you want to get out of this collaborative experience?
13. We are looking for those who, upon completing this fellowship will work to increase evidence-based teaching practices at their home institution. If chosen, how do you plan to do this?