The STEM Center's Ramps-into-Research Learning Module

Proposal & Stipend Application Form

Option A: Follow the QR code to complete this application online
or follow this link:

> https://forms.office.com/Pages/
> ResponsePage.aspx?id=2MtTsZK
> zREebOePNuGd_AEMx8Ecx5SVG
> rZadx8f3ZHRUNjBYN0RURFA3M
> 1k0UlZMU0dBMk1GNTI1MC4u

Option B: Complete the application as printed here and return as an attachment via email to the STEM Center RiR Leadership team via: david.thompson@shsu.edu.

1. Name: 2. SHSU ID:

3. Department:

4. The SHSU STEM Center's Ramps into Research (RiR) initiative is offering $1000 stipends to faculty who successfully develop a new learning module aimed at helping students learn a core research skill used in their research group. The topic must be related to science, math or engineering to be eligible for a stipend and targeted at <u>*undergraduate students*</u> who are early in their studies. Examples of completed modules are available by emailing a request for module access to David Thompson (david.thompson@shsu.edu).

Contributions that don't meet the above criteria are welcome but are not eligible for a STEM Center RiR stipend. We also have funds to support student co-authors, and student evaluators of the learning module with hourly wages (see additional information provided with the checkboxes below). Faculty are limited to receiving one stipend per academic year.

Please check all that apply (only the first is required for the application):

☐ I am applying for a STEM Center seed stipend of $1000 to be paid upon completion of the proposed learning module.

☐ I plan to recruit a student co-author to collaboratively work with me on developing and refining the learning module.

   ☐ I will notify the RiR leadership team when the student co-author has been selected so that they can begin receiving an hourly wage ($12/hour) paid by the STEM Center's RiR initiative to support their work on the module.

☐ I plan to recruit a student evaluator. The student evaluator should be a freshman or sophomore student who has not seen the module. The student evaluator will work through the learning module and will offer feedback on where it might be refined to support better learning.

    ☐ I will notify the RiR leadership team when the student evaluator has been selected so that they can begin receiving an hourly wage ($12/hour) paid by the STEM Center's RiR initiative to support their work evaluating and testing the module.

    ☐ I agree to revise the module in light of the student evaluator's feedback.

5. **Hierarchical Outline**. Please consider a current topic of research that you are pursuing in which you would like to engage undergraduate student researchers. Prepare a hierarchical outline of the skills and methodologies that the student researcher would need to learn to begin contributing to this research.

6. **Learning Module Title.** What is the title of RiR Learning Module that you propose to develop? The title should be related to a portion of the *hierarchical outline* of skills and methodologies prepared in "5".

7. **Preliminary Module Outline.** Please provide a preliminary RiR module outline that summarizes the learning goals and flow of student activities in the RiR learning module you are proposing to develop. Please make sure that the module outline (1) is directly related to a portion of the hierarchical outline of skills and methodologies drawn up on the previous page; (2) focuses on equipping students with specific skills and/or methodologies that will promote success on an initial research project connected to your scholarship; (3) incorporates one or more specific examples that are directly relevant to your research; (4) leverages active learning methodologies; (5) is designed to require students at least 4 but never more than 20 hours to complete.

Minimum Module Components: We recommend that modules contain, at minimum, the following components: (1) Premeeting exercise, (2) Premeeting Exercise Assessment, (3) Collaborative training component with opportunities for interactive feedback and in-person training with the professor (or other expert) including three or more iterative practice cycles, (4) End of module assessment of student mastery of module learning goals. Authors are welcome to add other components as needed.

8. Will your proposed learning module include the *minimum module components* as listed above?

9. If you wish to omit or alter any of *minimum module components*, please outline the proposed changes here, and explain why you feel the changes would be beneficial. (We are willing to consider other plans if a good rationale is provided.)

10. **Requirements and Goals for Stipend Recipients.** Module access is via a departmental RiR Blackboard organization that is controlled by module authors and their departments.

Please check all to indicate that you have read and understand these requirements and goals for stipend recipients:

☐ The completed learning module must be shared with other RiR collaborators by posting it on the recipient department's Blackboard (Bb) space within the *Ramps-into-Research* Bb organization before the faculty stipend will be released. (Please note that granting access to the blackboard components does *not* imply that access is granted to other resources such as proprietary software, instruments, faculty time, etc. that may be used in the module)

☐ Each module should be written with sufficient detail to enable a smart freshman or sophomore to successfully master the targeted skills/methods.

☐ Key goals of the RiR modules are to: help more students embrace research early in their careers, improve student learning, student retention, and research success for both students and faculty.

☐ I understand that if I am awarded a stipend, I will be expected to participate in monthly RiR faculty learning community discussions focused on implementing best practices in research mentoring. These provide an opportunity to give and receive support from like-minded faculty who are also developing RiR learning modules. (Lunches will be provided.)

11. **Administrative Approval.** Please seek the approval of your department chair or organization administrator before submitting.

Do you have the support of your department chair or organization administrator?

☐ Yes, I have requested the approval of my department chair, and they are supportive of my participation.

☐ No. (If this is your answer, please briefly explain. Please note that stipends will only be granted for projects supported by department chairs.)

Please scan and submit completed proposals as attachments via email to David Thompson (david.thompson@shsu.edu). If you do not hear a response within one day, please notify the STEM Center (936) 294 – 4473. Thank you!