

CiDER REU Application, Summer 2022

Thank you for your interest in applying for the CiDER REU! Please answer all items to the best of your ability. Your responses can be saved and returned to later. However, after you have submitted the application, responses can no longer be edited. If you have questions, please don't hesitate to contact Dr. Jenni Momsen, jennifer.momsen@ndsu.edu

Please prioritize your top three preferences for research projects below. The descriptions, mentors and personnel for these projects can be found on the Growing Up STEM website.

_____ Project 1. SMASH!!: Using the Microbiology Concept Inventory to Facilitate Curricular Reform

_____ Project 2: Why is Human Anatomy and Physiology so difficult?

_____ Project 3. Investigating the interplay of students' mathematics and physics thinking

_____ Project 4. Tough Decisions: WWSD (What Would Students Do?)

_____ Project 5. How Green is your Chemistry? National survey of green chemistry integration into organic chemistry

_____ Project 6. To mix or not to mix? Exploring how to support the learning of key-term definitions

_____ Project 7. Students' Conceptual Understanding of Fundamental Chemistry Concepts

_____ Project 8. Assessment Showdown! Investigating whether question format impacts student reasoning about natural selection

_____ Project 9. Why Do I Need to Know This? Evaluation of Utility Value Intervention in Undergraduate Organic Chemistry Course

_____ Project 10. Outreach for Recruitment in Geosciences

_____ Project 11. Vector Addition & Subtraction: Interpreting what Students Do

The next three questions are designed to give us an understanding of your past success on research-like activities. Even if you haven't conducted research we'd like to know instances that you have demonstrated creativity on a project, worked independently or collaboratively, and when you went above and beyond expectations for a project. These are the kind of skills we look for when selecting REU participants.

Q. Creativity is often cited as an important ability for a successful researcher. Please describe a time when you felt or demonstrated a particularly creative idea, new approach, or solution, and how this impacted the project.

Q. Researchers work both independently and collaboratively. Independent researchers think about time management, self motivation, and goal setting. Please tell us about a time where you've used these strategies to successfully complete a school project.

Q. Collaboration is essential to all research, and requires us to listen to and trust our colleagues, promote diverse ideas, and build consensus. Please tell us about a time where you've used these strategies to successfully complete a group-based school project.
