



RESEARCH EXPERIENCES FOR UNDERGRADUATES

Planned Program Dates: May 31, 2022 – August 5, 2022*

In mechanochemistry, the application of mechanical force can help drive reactions at lower temperatures and without the use of solvents, making it a green approach to chemical synthesis. A key challenge, however, is the lack of understanding of how precise forces can be applied to chemical systems to obtain specific products. The cross-cutting nature of mechanochemistry blends chemistry, materials science, engineering, and physics, and thus lends itself to a unique research experience for students. Our diverse team of faculty has a strong record of supporting integrative, interdisciplinary, collaborative research activities, and in fostering an inclusive and supportive climate that welcomes and supports everyone. Participation in our REU program will allow students to gain experience in team-based research and afford them the opportunity for professional development in science communications, entrepreneurship and innovation, STEM policy, and STEM history. All of these aspects will support and foster collaboration across multiple research disciplines.

Students in the CMCC REU will interact across our multi-institutional center via team based projects, and will receive personal mentoring from multiple faculty and graduate students. REU students will also participate in our summer Center retreat.

Students in our REU will receive:

- (1) a stipend of \$5,000
- (2) housing at their selected REU site*
- (3) support for travel to/from the REU site (*again, if in person*) and to attend a national STEM meeting.
- (4) a \$500 debit card to be used toward meals



ELIGIBILITY. This is a competitive program open to undergraduates in chemistry, physics, materials science, chemical engineering, or mechanical engineering majors (or closely related fields) enrolled in 4-year U.S. colleges and universities who have completed at least their first year with a 3.0 GPA or better. Two letters of recommendation will also be required. Students should not be in their final year of study (i.e. graduating before the REU program begins). We particularly encourage applications from members of traditionally underrepresented groups in STEM, including members of racial and ethnic minority groups, women, and veterans. Students should be US citizens or permanent residents.

APPLYING. For project details and to apply, visit our website: https://www.chem.tamu.edu/cmcc/reu_info.php. Completed online applications must include a personal statement and an unofficial transcript through Fall 2021. Two (2) letters of recommendation are also required (instructions sent to references after application submission).

Application window December 1, 2021 – February 4, 2022

* A virtual option may also be planned to support activities pending impacts of COVID-19.

