

PAID UNDERGRADUATE RESEARCH FELLOW IN EMERGING MATERIALS

CENTER FOR ULTRAFAST DYNAMICS AND CATALYSIS IN EMERGING MATERIALS (C-UDCEM)

The Center for Ultrafast Dynamics and Catalysis in Emerging Materials (C-UDCEM), a National Science Foundation funded [Pathways to Research and Education in Materials \(PREM\) Center for Under-Represented Minorities \(URM\)](#) is seeking multiple highly motivated and talented STEM undergraduate students, to join a cohort of **PREM scholars** and conduct ground breaking research in advanced materials for 1-2 years with a fellowship stipend. Preferences will be given to **URM students in good academic standings and high motivation**.

- Submit your application via this link: <https://forms.office.com/r/ctuBTpV5PZ>, or scan the QR code on the right.
- Screening of candidates will start on Sep. 6th and continue until all vacancies are filled.



For questions please contact center director Dr. Khondaker (saiful@ucf.edu) and center education director Dr. Chen (Zhongzhou.Chen@ucf.edu)

ABOUT PREM SCHOLARS AT C-UDCEM

A joint effort between the University of Central Florida (UCF) and the University of Washington (UW) in Seattle, this newly established research center's mission is to advance the field of materials research and improve the diversity of materials research and engineering. We want you be the next generation of thinkers, researchers and leaders in the field of materials science and engineering.

AS PREM SCHOLARS, YOU WILL:

- Earn a **fellowship stipend of \$2500/semester** in Spring and Fall semesters.
- Working 15-20 hours per week in world-leading research labs, collaboratively mentored by world-class researchers from both UCF and UW.
- Conduct paid summer research at UW or other institutions with additional stipends and paid travel expenses.
- Learn and interact with other PREM Scholars, researchers and invited speakers in monthly online PREM cohort meeting.

THE RESEARCH AND EDUCATION PROGRAM OF THE C-UDCEM PREM CENTER WILL:

- Prepare you for high-paying jobs in high-tech industry through hands-on experience in materials growth and characterization.
- Significantly boost your chances for being admitted to graduate school at top institutions with ample undergraduate research experience.
- Help connect you to paid summer internships at universities and in industries

- Build connections with world-renowned scientists and engineers by presenting and publishing your research.

RESEARCH AT PREM C-UDCEM CENTER

- The **Catalysis Research Group** led by Professors, [Banerjee \(Materials Science and Engineering\)](#) and [Vaida \(Physics\)](#) is working in the field of single-atom catalysis including synthesis and characterization of novel catalytic materials to solve future energy needs.
- The **Quantum Material Research Group** led by Professors [Neupane \(Physics\)](#), [Chini \(Physics and CREOL\)](#) and [Khondaker \(Physics and Nanoscience\)](#), is performing research in the field of quantum materials including, light-matter interactions with ultrafast laser, synthesis and device properties to solve future computation and communication needs .
- More research information can be found at the center website: [Research – PREM Center for Ultrafast Dynamics and Catalysis in Emerging Materials \(C-UDCEM\) \(ucf.edu\)](#)