



The NSF-CREST Center for Cellular and Biomolecular Machines (CCBM) was established with a \$5 million Centers of Research Excellence in Science and Technology (CREST) grant in 2016 from the National Science Foundation (NSF). The CCBM brings together more than 30 faculty members from multiple units across campus, including bioengineering, physics, chemistry and chemical biology, biomaterials science and engineering, cell and molecular biology, and applied mathematics. The center received an additional \$5 million in 2021 for another 5 years of funding. Researchers are studying how biological matter like proteins or cells come together to perform specific tasks, in hopes of eventually being able to engineer and develop innovations ranging from designer cells and tissue to novel diagnostic and therapeutic devices. The CCBM also hosts an integrated, interdisciplinary training program for graduate students that emphasizes physical and biological components, research and training experiences for undergraduate and high school students to enhance the recruitment of underrepresented groups into STEM research, and outreach experiences for the local community and beyond.

NSF-CREST Scientific Center Project

Student Success Internship for UC Merced Undergraduates

(Oct. 2022-April 2023)

Due Oct. 27, 2022

REQUIREMENTS:

- Must be a currently enrolled UG student with plans to be enrolled in both Fall 2022 & Spring 2023.
- GPA requirement 3.0 or above.
- Must have been enrolled 1 or more semester at time of application. 1st semester transfer students eligible.
- Must be in good standing academically & in terms of conduct before & during internship.
- Fulfill project contract requirements & learning agreement.
- Engage in project 10 hours/wk.
- Upon completion of the project, the student will receive up to \$3,000.

Description:

The intern will gain valuable experience working within a cutting-edge scientific center to prepare for a career in STEM research &/or teaching, with a focus on societal impacts. Through this project, the intern will explore potential career paths. The intern will focus on center research, education, service/outreach, broadening participation, & administration; engage in readings & conduct interviews; attend & assist in research meetings; & participate in journal clubs, CCBM scientific workshop, & CCBM Open House. The intern will develop multimedia educational materials; & develop / deliver activities for local K-12 students & UC Merced undergraduates.

Tasks:

- Explore potential career paths related to research and/or teaching
- Engage in readings
- Conduct interviews with center faculty, scientists, grad & UG students
- Attend & assist in research meetings
- Participate in & contribute organization for scientific journal clubs, the CCBM Workshop on Cellular & Biomolecular Machines (with external & internal speakers), & CCBM Open House (open to the whole community)
- Create multimedia educational materials (posters, video, flyers) to be disseminated locally
- Develop & deliver activities for local K-12 students off campus & UC Merced undergraduates on campus
- Write summaries of what has been learned (some to be published on center website & through social media)
- Discover focus areas & goals of center through guided activities in these domains: center research, education, service/outreach, broadening participation, & administration

Additional Requirements: Junior or Senior, in science or engineering major. Applicant should be interested to consider a career in research and/or teaching.

For more information, contact Carrie Kouadio, CCBM Executive Director, ckouadio@ucmerced.edu

Apply / More Info - ccbm.ucmerced.edu

An NSF Center of Research Excellence in Science and Technology (CREST)

UC Merced • 5200 North Lake Road • Merced, CA 95343

