Student Attendees,

Enclosed you will find information on several graduate programs and REU programs provided by our Academic Partners and Sponsors. We encourage you to visit their booths at the Career and Academic Expo on **Wednesday, September 28**, from 8:30 AM to 4:30 PM. In addition, for those of you who are looking for summer research opportunities, please swing by the REU Power Hour on **Tuesday, September 27**, from 4:00 to 5:00 PM. Learn more about the REU/SURF process, and chat with some of our Academic Sponsors about their REU programs.

We look forward to seeing you at some of these events!
REU Opportunities

The National Science Foundation Centers for Chemical Innovation (CCI) program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs work to address these challenges to produce transformative research that leads to innovation and attracts broad scientific and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities through enhanced collaborations.

CCIs actively integrate research, innovation, education, broadening participation, and informal science communication. In that regard, CCIs provide unique research experiences for undergraduates in which students are immersed in collaborative research environments throughout the USA. Applicants can choose from a range of research topics and institutions where to conduct their summer research.

Participants in the CCI Summer Research Programs receive a wide range of exciting opportunities, including:

- A competitive stipend, travel award, and housing for 10 weeks.
- Research in innovative, cutting-edge multi-institutional and interdisciplinary settings.
- Participation in seminars, workshops, career-planning sessions, and other professional development opportunities.
- Interaction with prominent leaders in the chemical sciences.

Current summer opportunities are available at Center for Selective C-H Functionalization (CCHF), Center for Aerosol Impacts on Chemistry of the Environment (CAICE), Center for Sustainable Polymers (CSP), Center for Sustainable Nanotechnology (CSN), and Center for Genetically Encoded Materials (CGEM) with more to come every year as more CCIs are funded through the NSF.

For more information and links to each individual program please go to: https://www.nsfcci.org/undergrad/
Carnegie Mellon University is a private, internationally ranked research university with acclaimed programs spanning the sciences, engineering, technology, business, public policy, humanities, and the arts. Our diverse community of scholars, researchers, creators, and innovators is driven to make real-world impacts that benefit people across the globe. With a bold, interdisciplinary, and entrepreneurial approach, we do the work that matters.

Carnegie Mellon is in the midst of a 10-year ambitious future of science initiative (www.cmu.edu/future-of-science) that will accelerate the university’s leadership in scientific discovery and education and lead to groundbreaking innovations in the biological sciences, chemistry, physics and mathematical sciences. The initiative includes the construction of a next generation building for the sciences at Carnegie Mellon and the creation of the world’s first cloud lab at a university. The initiative will also support the research areas of the future, including research in life sciences, materials science and sustainability science.

The Department of Chemistry at Carnegie Mellon is home to leading research programs in atmospheric, green and environmental chemistry; biological chemistry; catalysis and energy; materials and nanoscience; and physical, analytical and theoretical chemistry.

The Louisiana State University Smart Polymer Composite Materials and Structures Research Experience for Undergraduates (REU) is an interdisciplinary project across science and engineering. The research focuses on materials and structures that have integrated multi-functionality with capabilities including sensing, actuating, healing, and adapting, in addition to classical tasks, such as loadbearing. During the 10-week summer program, faculty from the departments of chemistry, mechanical engineering, and architecture will mentor students. Students in this REU will participate in research projects, professional development, research facility tours, and have opportunities to present their research. Participants will receive a stipend of $6000, on-campus housing, and travel reimbursement. More information can be found at https://www.lsu.edu/smartreu.

The LS-PAC MODELS Center is an NSF-funded Louis Stokes Regional Center of Excellence housed at Louisiana State University (LSU). Our mission is to increase diversity of STEM academic faculty by supporting underrepresented undergraduate and graduate students, post-doctoral fellows, and early-career faculty who are interested in STEM academic careers via an innovative mentoring network and targeted professional development opportunities. Our mentoring program allows participants to find and connect to mentors through the LS-imPACt mobile app and website and allows for meaningful scholar-mentor, scholar-scholar, and mentor-mentor interactions. Mentors can provide guidance to scholars to help them achieve their career goals and share ideas and resources. Additionally, we offer professional development webinars, workshops, and resources to students interested in earning a PhD or entering an academic career. We also host an annual summer conference dedicated to strengthening connections among underrepresented populations in STEM, and to promote diversity, equity, and inclusion in STEM academia. The LS-PAC MODELS Center is committed to supporting students through their academic career journeys and believes that all students should have access to resources that cultivate success.
MIT Chemistry is a leader in experimentally and theoretically probing chemistry at its most fundamental level, discovering new chemical syntheses, creating sustainable energy, unraveling the biochemical complexities of natural systems, improving the environment, detecting and curing disease, and developing materials with new properties. We offer an educational and research experience in the chemical sciences that is rich with challenges and opportunities for undergraduate, graduate, and post-graduate students.

The Department of Chemistry at MIT commits to building a community that enables everyone to thrive. Non-MIT undergraduates can participate in paid summer research through the MIT Summer Research Program (MSRP) to gain valuable exposure to state-of-the-art research laboratories. All incoming first-year graduate students are matched with current graduate students who provide personal support, advice, and resources during the first two years of graduate school. Graduate students receive a livable stipend, covered health insurance, and support for six years of research.

The Department of Chemistry and Biochemistry (CBC) at Ohio State University is a national leader in research and education. Our vast resources, cutting-edge facilities, and outstanding faculty make us THE launching point for your scientific career! CBC faculty are invested in training the next generation of scientific leaders in industry, academia, and public service. PhD graduates go on to industry positions at companies such as DOW, Dupont, Merck and Abbvie, faculty positions in academia at prestigious academic institutions, and careers at national labs such as Argonne National lab, Oak Ridge National Lab, and Pacific Northwest National Laboratories. CBC is leading cutting edge research to tackle 21st century scientific and societal changes in areas such as renewable energy, drug development, and sustainability while our facilities provide cutting edge technology and instrumentation in support of the research and teaching.

Are you an undergraduate student eager to get involved in research and learn more about graduate school? The Department of Chemistry at Penn State offers opportunities for undergraduate students to experience research firsthand. Come participate in our ten-week Research Experience for Undergraduates (REU) Catalysis and Motion, which is designed for students who are majoring in chemistry, biochemistry, or chemical engineering to come do cutting-edge research with our research faculty members. Students will participate in a professional development series, seminars, and extracurricular activities.

The Penn State Department of Chemical Engineering hosts an REU focused on the Integration of Biology and Materials. This program provides a collaborative research experience aimed at advancing the field and applications of biomolecular materials. In addition to the research experience, students participate in professional development and social activities including seminars and facilities tours. Undergraduate students in chemical engineering, chemistry, biology, or related disciplines are encouraged to apply.
The Department of Chemistry and Biochemistry at the University of Delaware offers a diverse and innovative program that is dedicated to equipping the next generation of chemists, scientists, engineers, thinkers and educators with the tools they will need to tackle these 21st century challenges. Our graduate program in Chemistry and Biochemistry combines a rich historic legacy with a strong commitment to education and innovation. Students at UD benefit from a highly supportive and collaborative environment that provides a wide array of cutting-edge Core Facilities, and dynamic initiatives focused on driving advancements across all areas of chemistry, biochemistry and related fields. The University of Delaware is situated less than an hour from Philadelphia, PA, and is within easy driving distance of New York City and Washington, D.C.

Chemistry
University of Missouri

The Department of Chemistry at the University of Missouri, Columbia (Mizzou) is the flagship institution of the University of Missouri System. With the largest research reactor at an academic institution in the world (and one of the only radiochemistry graduate programs), a new NextGen Precision Health Institute, newly formed Materials Science & Engineering Institute, and a $1.5B commitment to expanding faculty and facilities, it is an exciting time to be a member of our community. Graduate students have access to state-of-the-art laboratory and computational facilities, maximizing their research and potential. We are committed to providing quality education to our graduate and undergraduate students through excellence in research and teaching while continuing to expand the inclusion, equity, and diversity of our program. The Stevens Summer Research Fellowship is available to undergraduate, non-Mizzou students to encourage undergraduate research and find out what Mizzou is all about!

UNC Chemistry

UNC Chemistry conducts research in all areas of modern chemistry, and our research program is one of the strongest in the country with more than 300 publications annually and over 100 patents filed within the last 10 years. Significantly, independent research experience is a substantial portion of all our programs so that students can function as successful research scientists performing advanced scientific research in the future. At UNC, incoming chemistry graduate students will have an opportunity to join the Slayton Evans Student Development Initiative (SESDI). The goal of SESDI is to enhance diversity and create a supportive environment for underrepresented and first-generation college students. Any incoming chemistry graduate student that self-identifies as an underrepresented/first generation college student is eligible. SESDI facilitates the transition into our graduate program during the summer prior to first year of entry into the Ph.D. program. Summer program components include a summer research rotation in a research group (8-10 weeks) supported with a stipend and mentoring undergraduates enrolled in a summer chemistry course, in addition to workshops and cohort building activities. Then, throughout the academic year, further advising, academic support, workshops and additional cohort building are offered.
The University of South Florida (USF) is a high-impact global research university designated as a “Preeminent State Research University” by the Florida Board of Governors and classified by the Carnegie Foundation as both a Doctoral University with “Highest Research Activity” and as a “Community Engaged” institution by the Carnegie Classification of Institutions of Higher Education. USF is ranked among the top 15 U.S. public universities and top 25 universities worldwide for granted U.S. patents according to the Intellectual Property Owners Association/NAI (2022). Signature research areas include: advanced materials, biotechnology, drug delivery systems and drug discovery, energy & sustainability, materials and nanotechnology, immunoengineering, and neuroengineering. For nearly 20 years, USF has been a national leader in conferring PhDs to Black and Hispanic students in engineering and the physical sciences with initiatives (e.g., Alfred P. Sloan Foundation University Center of Exemplary Mentoring, NSF Florida-Georgia LSAMP Bridge to the Doctorate, and McKnight Doctorate Fellowship programs) that foster inclusive excellence in science and engineering disciplines. USF is committed to preparing the next generation of STEM research innovators, faculty role models, and thought-leaders from historically underrepresented groups. Please stop by exhibit #210 to learn about our faculty, postdoctoral, and PhD student opportunities for Fall 2023!

Yale University

Is your next step a Ph.D.? The Yale Department of Chemistry is recognized as having one of the best chemistry programs in the U.S. We are proud of our history, faculty, laboratories, instrumentation, libraries, and relations with industry. But, most of all, we are proud of our students and their research. Graduates of the department occupy leading positions in academia and industry, due in no small part to their leading-edge research experiences.

The department's relatively small size facilitates meaningful interactions between students and internationally known faculty, and collegial interactions between the hardworking and lively graduate students contribute to the Ph.D. experience. We believe the differences in people and ideas enrich the framing of questions and crafting of solutions that leads to scientific excellence. Our scientific curiosity, achievements, and respect for each other unite us in our pursuit to make the world a better place through chemistry. We welcome applications from attendees of the NOBCChE meeting, application fee waivers are available to all NOBCChE meeting attendees.