



Chemistry Summer Undergraduate Research Program

The CCHF Chemistry Summer Undergraduate Research Program (CSURP) provides an opportunity for undergraduate students with a *strong interest in the chemical sciences* to conduct supervised research with a faculty mentor within one of the CCHF **23 partner research labs** across the country. CSURP Fellows participate in all phases of the research process, from data collection and analysis to communicating the results in written and oral form.

- Engage in innovative, cutting edge research
- Interact with prominent leaders in the field
- Receive a competitive stipend
- Receive campus housing or a housing allowance
- Attend seminars, workshops, career planning sessions and other professional development opportunities



Online Application: www.nsf-cchf.com/opportunities.html
Application Due: February, 8, 2016

CCHF

Center for
Selective C–H
Functionalization

A National Science Foundation Center for Chemical Innovation



Center for Selective C–H Functionalization



The CCHF aims to leverage the potential of the Center to develop technology for selective C–H functionalization that will revolutionize the practice and reshape the teaching of chemical synthesis, empowering end users in the material sciences, fine chemicals development and drug discovery.

Research

C–H Functionalization has the potential to impact the way in which we construct all organic molecules and hence the chemistry that underpins much of modern medicine and manufacturing. By removing the fields reliance on functional groups and using C–H bonds as effective reaction partners, complex organic molecules can be made in a streamlined, cost-effective and environmentally sustainable fashion.

Innovation

The CCHF has partnered with chemical industry to connect the innovations and discoveries being made in the Center to the problems and challenges faced in industrial settings. This network and exchange between academic and industrial partners has driven the Center's research in new directions and necessitated our members to consider new perspectives and ideas in their research.

Outreach

The CCHF engages a broad range of audiences, from the scientific community to the general public, to convey the importance of the concepts core to the Center's research. Center members engage with schools, Science Festivals and Cafés to present and discuss their ideas and science, and reinforce how sustainable synthetic chemistry can impact society.

Education

C–H Functionalization represents a fundamental paradigm shift in the way Organic Chemists think about constructing organic molecules. In order to educate the scientific community and beyond the Center is developing a series of cutting-edge educational tools and mechanisms to broadly disseminate this technology.

