

**CMS UNDERGRADUATE RESEARCH PROGRAM
(CHURP)**

The Department of Biochemistry & Molecular Biology

**Research
in the
areas of:**

Biochemistry, Molecular Biology,

Cell Biology & Biotechnology

Structural Biology & Proteomics

The Department of Biochemistry & Molecular Biology of the Chicago Medical School offers a program for undergraduate students to participate in biomedical research during their summer break and to experience the excitement of a modern medical school. The purpose of the program is to provide undergraduate students the opportunity to discover what biochemical research involves and to begin acquiring a questioning attitude toward experimental biology and medicine. The experience will also help students better formulate their own school and career goals.

CHURP students become part of an intimate, active research group including faculty, graduate students, and postdoctoral fellows. The participants learn modern biomedical techniques, read current research papers, and contribute to ongoing experiments. They also have the opportunity to attend and/or participate in seminars and journal clubs concerning other current research topics. Individual research projects are tailored to meet the interests and abilities of the student and also the ongoing program in the Principal Investigator's laboratory. Some of these projects might continue throughout the academic year on a part time basis, depending upon the proximity of the undergraduate college to CMS.

Research is performed in the modern research facilities of CMS with nationally and internationally known faculty who are funded by federal or other grants. Opportunities exist in protein structure, enzymology, X-ray crystallography, mass spectrometry, recombinant DNA methodology and cloning, mutagenesis, molecular genetics, molecular computer modelling, and spectroscopy. Systems under investigation include mitochondrial energy conversion, neurotrophic proteins, membrane transport proteins, neuroendocrine processing, enzyme regulation and mechanism, RNA functions, cancer and neuroregeneration.

North Chicago lies in the North Shore suburban area where the summers provide pleasant living and the excitement of urban Chicago is easily reached. Individuals may arrange for housing in adjacent suburban communities or students from the Chicago North Shore area may live at home.

CHURP participants will receive a \$2500 stipend for a 10 week period. We encourage applications from qualified students who wish to obtain research experience in the laboratory before making their graduate education decisions. Students completing their sophomore or junior year may apply by submitting an application by May 4 that includes a short personal statement of their career goals.

FOR INFORMATION CONTACT:

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