

**Department of Biological Sciences
MCMICKEN COLLEGE OF ARTS AND SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: March 1, 2007

The Department of Chemistry is pleased to offer the following research project for the summer of 2007. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and if possible, develop a timetable for the twelve-week research period.

Developing switches for cellular transport agents

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Project Description

Cellular transport agents will be equipped with a trigger that will become activated with a biological agent or change in environment. A student will be provided with hands-on experience in synthetic chemistry, instrumental analysis, and cellular assays. Experiments will be performed with the guidance of a graduate student and professor Smithrud. Results should result in a publication in a peer-reviewed journal.