

**Department of Geology
COLLEGE OF ARTS & SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: March 1, 2011

The Department of Geology is pleased to offer the following research project for the summer of 2011. 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.

PROJECT TITLE: Human impacts on carbon and nitrogen cycling in the Cincinnati area

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Project Description

Research in this lab focuses on global and regional changes in water flow and availability, greenhouse gas emissions, and carbon and nitrogen cycling. Potential projects for the summer of 2011 include the impact of agriculture, wastewater, and fossil fuel burning on water quality in local streams; greenhouse gas emissions and carbon sequestration in local lawns, parks, and forests; and erosion of soil into streams as a result of urbanization. The project will likely involve significant amounts of time outside in the field collecting samples and/or deploying instruments, as well as time in the laboratory preparing and analyzing samples on state-of-the-art biogeochemistry instruments.