

**Department of Mathematical Sciences
COLLEGE OF ARTS & SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: March 2, 2009

The Department of Mathematical Sciences is pleased to offer the following research project for the summer of 2009. 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.

UNDERGRADUATE RESEARCH IN FINANCIAL ENGINEERING

**Professor Srdjan Stojanovic
Department of Mathematical Sciences
819C Old Chemistry Building
Cincinnati, OH 45221-0025
Tel: (513) 556-4064
Fax: (513) 556-3417
Email: Srdjan@math.uc.edu**

PROJECT DESCRIPTION

Interest rates, equity, and foreign exchange market data collection and organization.

Statistical estimation of parameters for the stochastic models for the above financial instruments.

Financial derivative prices data collection, organization and comparison of theoretical and observed prices.

Prerequisite: MATH 541, MATH 542, MATH 543