



UNIVERSITY OF SOUTH CAROLINA

2010 RESEARCH ABROAD EXPERIENCE FOR UNDERGRADUATES IN HYDRAULIC ENGINEERING

Director: Dr. M. Hanif Chaudhry, Co-director: Dr. Jasim Imran

Application Deadline: March 31, 2010

PROGRAM DESCRIPTION

The Department of Civil and Environmental Engineering, University of South Carolina (USC) is pleased to announce the *Summer 2010 Research Abroad Experience in Hydraulic Engineering Program*. The program is sponsored by the National Science Foundation (NSF) project *PIRE: Modeling of Flood Hazards and Geomorphic Impacts of Levee Breach and Dam Failure*. Qualified undergraduates from Civil and Environmental Engineering, Geosciences or related fields will have the opportunity to conduct laboratory and field based summer research at the Université catholique de Louvain, Belgium (UCL), Instituto Superior Técnico, (IST) and Laboratório Nacional de Engenharia Civil (LNEC), Portugal, or University of Auckland, New Zealand. Participants will spend a period of four weeks at the hydraulics laboratory of the host institute in Europe/ New Zealand where they will gain hands on experience on advanced measurement techniques. Students will also travel to field sites to visit hydraulic structures including dams, levees, locks and gates, and navigation channels. Prior to their departure, the students will be required to attend orientation sessions at USC. Upon completion of the four weeks of study in Europe or New Zealand, participants will return to USC for a period of one week and synthesize their observations, prepare a research report, and present the results. All participants will be provided with round trip airfare of upto \$1,500, and a stipend of approximately \$1,500 to cover meal, lodging and other expenses.

APPLICATION PROCEDURES AND REQUIREMENTS

The program is limited to **U.S. citizens** and **permanent residents** of the U.S. Applicants must be enrolled in a Civil Engineering or a closely related field, have a cumulative GPA of at least 2.8, and have completed the undergraduate fluid mechanics course. The program involving visit to UCL begins approximately on May 8, 2010 and the program involving visit to IST and LNEC begins approximately on June 8, 2010. The schedule for the program involving University of Auckland will be determined later. Interested students should complete the fillable pdf application form and submit it along with the requested supporting materials before the deadline. Students from the under represented groups are particularly encouraged to apply.

Send Application Materials to:

NSF-PIRE PROGRAM: Ms. Karen Ammarell (ammarell@cec.sc.edu)

Department of Civil and Environmental Engineering

University of South Carolina; Columbia

300 Main Street, Columbia, SC 29208

(Fax) 803-777-0670.

APPLICATION FORM

2010 Research Abroad Experiences for Undergraduates: Hydraulic Engineering

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
UNIVERSITY OF SOUTH CAROLINA

Application Deadline: March 31, 2010

Name _____
Last First

Mailing Address _____
Phone: _____

Permanent Address _____
Phone: _____

Email: _____

Emergency Contact _____

Select one: US Citizen _____ Permanent Resident _____

College/University _____ Major _____

Cumulative GPA _____ Expected Graduation Date: M _____ Yr _____

Select one: Senior ___ Junior ___ Sophomore ___

Academic Honors or Awards _____

Do you plan to attend graduate school? M.S. ___ Ph.D. ___ Other ___ No ___ Unsure ___

Select one: Male ___ Female ___

Select one: African-American/Black ___ Alaskan/Aleut ___ Asian-American ___ Caucasian ___

Latin/Hispanic ___ Mexican-American/Chican ___ Native American ___ Puerto Rican ___

Other ___

Rank preference (1,2,3) : Belgium _____ Portugal _____ New Zealand _____

List two professional references whom we can contact

Name _____	Name : _____
Title _____	Title _____
Affiliation _____	Affiliation _____
Phone _____	Phone _____

To apply to this program, you must complete and submit this application, transcript of your academic record, and a 200-word narrative that discusses your interest in this program, your research interests, and your future educational and/or career goals.

I certify that all information (including transcripts) is valid and true to the best of my knowledge.

Signature of the Applicant

Date