The University of Illinois at Chicago High Energy Particle (UIC-HEP) group, with support from the National Science Foundation, is seeking an outstanding undergraduate to spend the summer of 2010 in Zurich, Switzerland, participating in an exciting research project in collaboration with the UIC-HEP group, and Swiss scientists at the Eidgenoessische Technische Hochschule (ETH) and the Paul Scherrer Institute (PSI). This work is part of an international collaboration between UIC and other US and international physicists on the CMS experiment at CERN, the European laboratory for particle physics. The research project will address issues with the use of semiconductor pixel detectors in the CMS experiment. Most of the research work will be performed at PSI, close to Zurich. Housing and living allowance, as well as transportation costs, will be provided by the UIC-HEP group. Students can opt to get UIC credit for Physics 392, Physics Research.

We will select each student based on his or her academic performance at UIC, employment and research experience, communication skills, and the result of an interview. Students should have completed Phys 141, 142, and 244. We prefer student majors in the following order: (1) physics, (2) engineering, and (3) other science major. Highly motivated students with other majors are also encouraged to apply. Fluency in German is not required. Per NSF regulations for this type of grant, only US citizens or permanent residents are eligible.

For more information, contact Professor Cecilia Gerber, gerber@uic.edu. To apply for the internship, send a personal statement, a resume, and a copy of the DARS report to the same email address by February 1st, 2010.