Great Location

The Polytechnic University of Puerto Rico is conveniently located in the island's financial district which is the very core of metropolitan San Juan. Our location affords easy access to many significant cultural and commercial centers of our capital city San Juan.

Great Laboratories

The Turing Lab for Graduate Studies is mainly sponsored with funds obtained through a proposal submitted to PRIDCO. These funds have been used to buy modern computers and workstations that provide the infrastructure needed for this lab and the new graduate programs.

The High Performance Computing Lab (HPC) is mainly sponsored with funds obtained from a proposal submitted to the DoD. These funds have been used to purchase a PC Cluster with 32 dual processors to support scientific and engineering research at graduate and undergraduate levels. A distributed shared memory SGI Altix 350 supercomputer with 4 CPU funded by PRIDCO is also housed in the Lab.

Great Department

There has been a tremendous growth in our Electrical & Computer Engineering and Computer Science Department (ECECS) in both our academic offerings and in research.

Our department has grown substantially from one academic program Bachelor in Science in Electrical Engineering (BS EE) to six programs of which five were created in the last three years. These new programs are: Master in Science in Electrical Engineering (MS EE, 2002); Bachelor in Science in Computer Science (BS CS, 2002); Bachelor in Science in Computer Engineering (BS CpE, 2003); Master in Science in Computer Engineering (MS CpE, 2004), and the Master in Science in Computer Science (MS CS, 2005).

In the years 2004-2005 our department has received funding from PRIDCO, NSF, NASA, ARO DoD, and AFOSR DoD to develop the graduate academic curriculum and strengthen the infrastructure for re-search. In this period we have hired five new PhD faculties/researchers.

For more information

Contact the Department of Electrical & Computer Engineering and Computer Science (ECECS) located at Ponce de León Avenue #377, L309, or visit our website:

www.pupr.edu/cs

E-mail: alcruz@pupr.edu
fperez@pupr.edu
Tel. (787) 622-8000 x 220, 316, 340

Computer Science Graduate Programs at the Polytechnic University of Puerto Rico

Master in Science Computer Science (MS CS)
(Thesis option)

Master in Computer Science (MCS)
(Non-thesis option)

POLYTECHNIC UNIVERSITY OF PUERTO RICO

Computer Science Graduate Programs at the Polytechnic University of Puerto Rico

Great University

The Polytechnic University of Puerto Rico ("PUPR") is a private, non-profit, four year coeducational higher education institution founded in 1966 offering academic degrees at the bachelors and masters level. The Polytechnic University of Puerto Rico is the largest private Hispanic engineering school in all of the United States and Puerto Rico and the only engineering school in the metropolitan area of San Juan.

Master in Computer Science

First in Puerto Rico

Computer science is a broad area of study that embraces many areas of interest in many phases of the industry and government. Computer science related occupations are in high demand, have an optimum growth and pay high salaries. With a Mas-ter degree in Computer Science from PUPR, graduating scientists are trained for top-level positions in the main industries in the island and can compete internationally for top jobs in those areas. The curriculum draws on courses from computer science, engineering, and business administration as well as special topics courses that cover the latest developments in the focus areas. An entrepreneurship component building on innovative research in the described sub-jects supports the students in creating their own start-up company.

Areas of Interest

The three areas of interest offered in this program are: IT Management & Information Assurance (ITMIA), Knowledge Discovery & Data Mining (KDDM), and Computer Graphics & Game Technology (CGGT).

The ITMIA specializes in training our graduates to become leaders in IT groups in the financial industry, including knowledge in security, operations, offshoring and financial terminology. There is a shortage of skilled computer security professionals capable of reducing vulnerabilities in computing systems.

The KDDM are relevant in various indus-tries such as finance or pharmaceutical where there are vast amount of data to be analyzed and leveraged for new business ideas. Graduates will be knowledgeable in applying algorithms and building systems to work with realworld data.

The CGGT addresses the gaming industry by focusing on technology needed to be successful in that growing industry. Graduates will be knowledgeable in applying advanced AI techniques for commercial computer games, the use of commercial game technology for training and education, product development methodologies, and entrepreneurship.

Admission Requirements

Applicants must meet the general requirements for admission to the graduate program outlined by the graduate school. In addition applicants are expected to have a Bachelor of Science in Computer Science, a minimum general GPA of 2.8

The student is normally admitted to the master's degree program in the field in which his or her undergraduate degree was conferred. When the student decides to do graduate work but his background is from a different field, the department, at his discretion, may require him/her to establish additional background by taking a number of undergraduate courses.

POLYTECHNIC UNIVERSITY OF PUERTO RICO