At the Faculty of Informatics, University of Lugano, Switzerland, http://www.inf.usi.ch/, there is an opening for a PhD student in Computer Science in the area of Algorithms and Computational Geometry under a project entitled: Generalized Voronoi diagrams of polygonal objects: algorithms and applications. The project is funded by the Swiss National Science Foundation for a time period of three years.

This project will investigate open problems on generalized Voronoi diagrams of polygonal objects as motivated by concrete applications. Voronoi diagrams are among the most fundamental structures in Computational Geometry and they have proved to be powerful tools in solving diverse and seemingly unrelated computational problems. Research will combine combinatorial analysis, the design and analysis of efficient algorithms, as well as implementation and application issues. The problems under investigation have been motivated by applications in VLSI Computer-Aided Design but they are fundamental structures of independent interest.

Applicants should have a Masters degree in Computer Science (or equivalent) and an affinity with algorithms, preferably geometric algorithms. Some experience in implementation and experimentation is expected. Candidates with a strong background in the design and analysis of algorithms will be preferred. Fluency in English is required.

For further information please contact Professor Evanthia Papadopoulou, e-mail: evanthia.papadopoulou@usi.ch, phone. +41(0)58 666 4122, http://www.inf.unisi.ch/faculty/papadopoulou/. Interested candidates should apply as soon as possible (deadline is Dec. 15). The application procedure is described in

http://www.inf.usi.ch/presentazionetudiare/container_education_phd/dottorato_regolamenti.htm

Annual Ph.D. salary is CHF 39'600 for the 1st year, growing to CHF 45'600 for the 3rd and 4th year.