Institute of Computer Graphics and Knowledge Visualisation,

Graz University of Technology

Applications are invited for a PhD position

available from February 2011 in the field of geometric modelling and analysis at the Institute of Computer Graphics and Knowledge Visualization at TU Graz (see http://www.cgv.tugraz.at for details of the group). The position is for two years initially, with the option to extend.

Description of the project:

Interfacing shape models between design and analysis is a serious limitation in today's geometry modelling industry and makes geometry optimisation expensive. We will investigate ways in which surface geometry for design and analysis can be modelled in the same framework based on subdivision surfaces. The research has multidisciplinary aspects drawing from computer science, mathematics, engineering and physics.

Requirements:

We are seeking an excellent and highly motivated PhD student interested in the field of Geometric Design and Analysis. A masters degree in applied/computational mathematics or a closely related field is required with excellent grades. The applicant ideally has a good understanding of geometric modelling and/or finite element methods for partial differential equations. Due to the computational nature of the project, programming skills (in Fortran/C++/Matlab) are also required. Additionally, some background in mesh generation (and/or computer aided geometry design) will be highly desirable.
The selected candidates are expected to join by 1. February 2011 or as soon as possible thereafter.

Contact:

To apply send all necessary documents to
Institute of Computer Graphics and Knowledge Visualization
Department of Information Technology
Graz University of Technology
Dr. Ursula H. Augsdorfer
Inffeldgasse 16c
A-8010 Graz

Please mail *u.augsdorfer@cgv.tugraz.at* for further details.