ÖAW AUSTRIAN ACADEMY OF SCIENCES

RICAM
JOHANN · RADON · INSTITUTE
FOR COMPUTATIONAL AND APPLIED MATHEMATICS

PhD position (f/m) in the New Frontiers Group on 'Mathematical modeling and simulation of crowded transport in the life and social sciences' (75%)

A PhD position is available at the Johann Radon Institute for Computational and Applied Mathematics (RICAM http://www.ricam.oeaw.ac.at/) within the New Frontiers Group on “Multi-scale modeling and simulation of crowded transport in the life and social sciences". The applicant will work with Dr. Marie-Therese Wolfram in the NFG research group, which started in the beginning of 2014.

The PhD project focuses on the development of mathematical models for pedestrian dynamics. A main focus will lie on the analysis of the derived partial differential equations, in particular the existence and long time behavior of solutions. The PhD researcher will work in collaboration with applied mathematicians, engineers and social scientists. The NFG is a young research team, which focuses on various aspects of crowded transport such as mathematical modeling, analysis of partial differential equations and scientific computing. The PhD position offers excellent opportunities to work in a lively research environment and collaborate with international experts in the field of applied mathematics as well as transportation research.

We are looking for a talented and self-motivated individual with a solid background in mathematical modeling and partial differential equations. Knowledge in numerical analysis and scientific computing is desirable. An MSc degree in mathematics is mandatory.

The position is available from June 1, 2018 or as soon as possible thereafter. It will be offered for 1 year with a possible extension for 1.5 years. The monthly gross salary is EUR 2.112,40 (14 times per year), the weekly working time is 30 hours and includes five weeks of vacation.

Applicants should provide the following information: letter of motivation, curriculum vitae, record of their university course work, PDF file of their master thesis and two reference letters. Interested candidates are invited to send their application in a single PDF file directly to mt.wolfram@ricam.oeaw.ac.at until May 13, 2018.

The Austrian Academy is an equal opportunity employer.