PhD Position in Numerical Analysis

The Computational Mathematics Group at the University of Zurich has an opening for a PhD position for 3+1 years.

Topic: Development of an efficient numerical method to solve wave equations in unbounded domains by space-time integral equation methods.

Prerequisites: Master/diploma in Mathematics, very good knowledge in numerical analysis and good knowledge in programming.

Application: In environmental physics there are applications where it is essential to obtain information on material properties inside (large) solid objects. For this purpose, typically, a wave is sent into the solid and the scattered wave is recorded and used to solve the relevant mathematical equations for the quantity of interest.

Cooperations: The proposal for this project has a concrete application: to determine the ice volume of glaciers in Switzerland (within a cooperation with the “Exploration and Environmental Geophysics” group at ETHZ).

The software development will be a close cooperation with the "Scientific Computing Group" at the University of Kiel.

Starting salary: CHF 58'800.

Conditions/Applications: The I-Math at the University of Zurich provides an excellent environment and infrastructure for their PhD students. PhD students are members of the Zurich Graduate School in Mathematics (ZGSM) which is jointly run with the D-Math at the ETH Zurich. The new PhD students will be integrated in the Numerical Analysis/Computational Mathematics research group of Professor Stefan Sauter.

Applications should include electronic versions of your transcripts and, if available, a certificate of the master degree. In addition 3 letters of recommendation are requested.

The application should be send to the head of the Numerical Analysis Group, Professor Stefan Sauter (eMail: stas@math.uzh.ch). The application deadline is February 28, 2018.