



**KTH Computer Science
and Communication**

PhD and Postdoc Positions in Theoretical Computer Science

The Theory Group at KTH Royal Institute of Technology invites applications for **PhD and postdoctoral positions in Theoretical Computer Science**.

KTH is the leading technical university in Sweden, with education and research spanning from natural sciences to all branches of engineering including architecture, industrial management and urban planning. The Theory Group at KTH (www.csc.kth.se/tcs/) offers a strong research environment covering a wide range of research topics such as complexity theory, computer and network security, cryptography, and formal methods. The group has a consistent track record of publishing regularly in the leading theoretical computer science conferences and journals worldwide, and the research conducted here has attracted numerous international awards and grants in recent years.

We are seeking one PhD student and one postdoc for the research project “Understanding the Hardness of Theorem Proving.” The project aims to advance the frontiers of proof complexity, and to leverage this research to shed light on questions related to SAT solving. We expect this to involve also research in related areas such as, for example, communication complexity, circuit complexity, or hardness of approximation. A slightly more detailed description of the project can be found at www.csc.kth.se/~jakobn/project-proofcplx.

The project is led by Jakob Nordström (www.csc.kth.se/~jakobn). In addition to the project leader, the group currently consists of one postdoctoral researcher and two PhD students. Travel funding is included, and the group also receives short-term and long-term visitors on a regular basis.

The successful candidates are expected to start at the latest in August 2013, although this is to some extent negotiable.

The **application deadline is May 5, 2013**. More information and instructions how to apply can be found at

- PhD position: www.csc.kth.se/~jakobn/openings/D-2013-0301-Eng.php
- Postdoc position: www.csc.kth.se/~jakobn/openings/D-2013-0315-Eng.php

Informal enquiries are welcome and may be sent to Jakob Nordström.