

*The University of Kalmar has 9 500 students and 800 employees. The university has five departments for education and research in natural sciences, technology, maritime studies, teacher training, social sciences, economics, business administration, tourism, media studies, journalism, languages, humanities and health and behavioral science.*



## PhD student in Environmental Science, especially geochemistry with focus on trace elements

The School of Pure and Applied Natural Sciences is part of the Faculty of Natural Science and Engineering. The research activities within this multidisciplinary school include 11 research topics, including environmental science. The School now seeks a PhD student in Environmental Science, especially geochemistry with focus on trace elements. The research will be carried out at the Äspö Hard Rock Laboratory, which offers a stimulating environment with a large number of visiting scientists and extensive databases which will be utilized in the research. For more information on this laboratory, see <http://www.skb.se>.

**The research** will focus on trace elements – in particular the lanthanides – in soil, overburden and natural waters. This will include determination of how these elements are released and retained in the geological materials, and how they are transported in ground and surface waters. The lanthanides are of current interest as they have similar behaviour as several actinides and as they can be used as tracers of geochemical and hydrological processes. The methods will include analyses of existing data, and field work at the Äspö Hard Rock Laboratory and its surroundings.

**Basic requirements** for post-graduate studies are laid out in the Swedish Higher Education Ordinance (Högskoleförordningen) Chapter 7. Applicants should have a Masters Degree (240hp/240ECTS) in a subject area of relevance for the present project. The quality of the undergraduate thesis, and skills in written and spoken English will have significant impact in the selection procedure. Successful completion of the post-graduate studies will lead to a PhD in Environmental Science. The PhD studies are limited to 4 years (100%) but may be extended to 5 years through other activities.

**For further information** please contact Professor Mats Åström, at +46 (0)734-426385 ([mats.astrom@hik.se](mailto:mats.astrom@hik.se)), Ian Nicholls, Head of Department, at +46 (0)480-446201 ([ian.nicholls@hik.se](mailto:ian.nicholls@hik.se)) or Personnel Officer Leif Eriksson, at +46 (0)480-446028 ([leif.eriksson@hik.se](mailto:leif.eriksson@hik.se)).

**Union representatives** may be contacted via the university switchboard at +46 (0)480- 446000.

**Application** should be addressed to the registrar at the address: Registrar, Kalmar University, S-391 82 Kalmar, Sweden, and should arrive no later than 17th March 2008. Mark your application with reference number 2.2-176/08.

**The application** (in English) shall include a short description of yourself and why you are interested in doing a PhD, CV, documentations of exams and grades, letters of recommendations, names and addresses of at least two referees (incl. phone and e-mail), a copy of an undergraduate thesis and other possible publications.

[www.hik.se](http://www.hik.se)