

## PHD STUDENTSHIP IN GEOBIOSPHERE SCIENCE FOR RESEARCH WITH NEUTRONS.

### Call

The Science Faculty is since 2009 making a particular investment in research with neutrons and synchrotron light as a preparation for having the two large scale facilities MAX IV and ESS in Lund. Important objects of this effort are to increase the faculty's overall competence in these areas and to attract new users of these methods.

With the aim to stimulate new relevant user groups within the faculty to use neutrons in their research, we hereby invite researchers to apply for support for a PhD studentship in the area of *Geobiosphere Science in one of the four specializations: Quaternary Sciences, Lithosphere and Palaeobiosphere Sciences, Physical Geography and Ecosystem Science, or Geographical Information Science*. The PhD project will have its base and the main supervisor at Lund University, and in addition have co-supervisors at a European neutron facility (typically a beamline scientist) and the European Spallation Source (ESS), respectively. The PhD student is, moreover, expected to spend a couple of months per year, minimum, at the neutron facility of the co-supervisor. A strong engagement of all supervisors in the project is expected. The project support from the faculty is 700 kSEK/year over 4 years (total 2.8 MSEK). *Please note that this grant can not be used to cover indirect costs (overhead).*

The application should include: (1) A description of the scientific project, with motivation, background, scientific goal(s) and how it will be pursued. (2) What neutron method(s) that will be applied in the project, with motivation. (3) A tentative timeline of the project. (4) A short description of the research environment in Lund in which the project will be carried out, including other possible key persons/groups and possible complementary in house research equipment. Maximum 4 pages in total. Attached to the proposal we need in addition, (1) the CV of the (main) applicant, and (2) a letter of approval from the head of department, or division when applicable, certifying that a PhD position can be advertised with the applicant as main supervisor, and that any indirect costs associated with the project will be covered.

Applications will be reviewed on the basis of general criteria, such as scientific excellence, originality and feasibility, in addition to the relevance of neutron experiments in the research project. An important criterion is also that the proposed project complies with the faculty's goal to increase the overall competence and broaden the use of these techniques, by supporting and stimulating new user groups. The applicant is expected to be the main supervisor of the PhD student, and hence is required to have the necessary qualifications.

Deadline for this application is 5 May, 2017.

After selecting the successful applicant, the work of defining the project participants, the individual study plan, and the advertisement of the position is done in cooperation between the applicant (the main supervisor), the

department and the Science Faculty strategy group for ESS & MAX IV. The strategy group will aid in contacts with and assignment of the co-supervisors, and in setting up the agreement with the neutron facility. Once all these steps are finalized, the application is formally granted and the PhD position can be announced. The final recruitment process will be a collaboration between the main supervisor, co-supervisors, department and strategy group.

Questions regarding this call are answered by Ulf Olsson, division of Physical Chemistry – e-mail: [ulf.olsson@fkem1.lu.se](mailto:ulf.olsson@fkem1.lu.se), phone: (22)28159.

Applications, in pdf format, should be sent by e-mail to Tobias Nilsson at the Science Faculty: e-mail: [tobias.nilsson@science.lu.se](mailto:tobias.nilsson@science.lu.se). Write "PhD studentship neutrons" as subject of the e-mail.