

2018-01-15

The Department of Environmental Science and Analytical Chemistry

PhD student position

focusing on Asian Aerosols: Molecular, Isotopic, and Optical Properties

Ref.nr: SU FV-0023-18.

Deadline for applications: 1 March 2018

Our department has >200 employees of which 60 are PhD students, from many different countries. We are well integrated in the interdepartmental Bolin Centre for Climate Research.

Project description

Atmospheric particles such as combustion-derived black carbon (soot) play a central role in climate change and air pollution, yet are poorly characterized. This Ph.D. thesis project will seek to use recently developed molecular and isotopic methods for improving our understanding of the sources, composition, transformation and climate forcing of atmospheric particles. This position offers the possibility to acquire a broad range of analytical and conceptual skills within environmental analytical chemistry and atmospheric/climate science. The Ph.D. student would join an internationally-active group of researchers and have full access to atmospheric observatories for international field campaigns and analytical facilities for advanced chemical analyses of collected samples. Collaborative field campaigns are currently conducted in both South and East Asia.

Collaborative skills as well as proficiency in scientific writing are highly desirable. Our research in this area is financed by the Swedish Research Councils VR and FORMAS.

Qualification requirements

To meet the general entry requirements, the applicant must have completed a second-cycle degree, completed courses equivalent to at least 240 higher education credits, of which 60 credits must be in the second cycle, or have otherwise acquired equivalent knowledge in Sweden or elsewhere. In order to meet the specific entry requirements, for doctoral studies in Environmental Science, at least 45 of the credits at the second cycle must be in one of the natural sciences (Biology, Chemistry, Earth Sciences, Physics, or Meteorology) including a 30 hp/HEC thesis project. The applicant should also have 30 hp/HEC in other natural science subjects different from the major. Only a person who will be or has already been admitted to a third-cycle program may be appointed to a doctoral studentship. The primary assessment criteria in appointing a doctoral student should be the capacity to benefit from the training.

Selection

The selection among the eligible candidates will be based on their ability to successfully pursue the research education. Special emphasis is put on the applicant's knowledge and skills within the subject



area, ability to express her/himself verbally and in writing, analytical aptitude, creativity, initiative and independence, and a capacity for working together with others. The evaluation will be made based on the relevance of past education and experience, grades from previous university courses (in particular at the advanced level), the quality and ambition of the independent project work, references, a cover letter motivating the candidate's interest, and interviews.

Admission Regulations for Doctoral Studies at Stockholm University are available at: <http://www.su.se/rules/book-2/education-at-phd-level-research/admission-regulations-for-doctoral-studies-at-stockholm-university-1.270190>. (visa text: www.su.se/rules)

Terms of employment

The term of the initial contract may not exceed one year. The employment may be extended for a maximum of two years at a time. However, the total period of employment may not exceed the equivalent of four years of full-time study. Doctoral students should primarily devote themselves to their own education, but may engage in teaching, research, and administration corresponding to a maximum of 20 % of a full-time position. Please note that admission decisions cannot be appealed. Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Contact

For more information, please contact Professor Örjan Gustafsson, orjan.gustafsson@aces.su.se.

Information about PhD education in Sweden can be found in *The Handbook for Postgraduate Students*: www.doktorandhandboken.nu/english

Union representatives

Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Häggberg (Fackförbundet ST), telephone: +46 8 16 20 00 (operator), seko@seko.su.se (SEKO), and PhD student representative: doktorandombud@sus.su.se.

Application

Apply for the position at Stockholm University's recruitment system <http://www.su.se/english/about/working-at-su/phd> It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the job advertisement, and that it is submitted before the deadline. Please include the following information with your application

- Your contact details and personal data
- Your highest degree
- Your language skills
- Contact details for 2–3 references

and, in addition, please include the following documents



- Cover letter motivating your interest for this position
- CV – degrees and other completed courses, work experience, and a list of degree projects/theses
- Degree certificates and grades confirming that you meet the general and specific entry requirements (no more than 6 files)
- Letters of recommendation (no more than 3 files)
- Degree projects/theses (no more than 3 files).

The instructions for applicants are available at: [Instructions – Applicants](#).

To apply for this position you need to use Stockholm University's web based application form. You will find the link to the web application form in the advertisement at:

<http://www.su.se/english/about/working-at-su/phd>