CHALMERS PhD student position in Systems Biology

Ansök

The Department of Biology and Biological Engineering was founded January 1 2015, and started off with high ambitions. The aim was to grow and become a leading center of innovation by combining the latest research in life sciences with biochemistry. And the department got off to flying start. In its first year, the numbers for publication, citation and external funding have been excellent.

The department consists of four division, each conducting outstanding research in the areas of industrial biotechnology, systems biology, chemical biology and food science. The overall goal is to help build a sustainable society and improve human health.

Nearly 150 people from 20 countries are currently working at the department. The working environment is characterized by respect, cooperation, responsibility, creativity and job satisfaction.

The Department of Biology and Biological Engineering has summarized its mission in four points:
• To be an attractive environment for top-level researchers in biological engineering
• To deliver top-level research results and innovative solutions for use in a sustainable society
• To offer excellent education that develops creative engineers and scientists
• To be a major contributor to international visibility of Chalmers

Information about the division
The Division of Systems and Synthetic Biology at the Chalmers University of Technology is one of the world leading research groups within systems biology, metabolic engineering, and industrial biotechnology fields. Our research interests involve a wide range of activities from the fundamental understanding of metabolism operation principles, combined with a highly applied research directed towards the development of new cell factories for the production of socio-economically valuable chemicals and up to the studies of metabolic-related diseases.

We have a range of ongoing interdisciplinary projects within a field of systems biology. By applying combinations of data science, machine learning techniques, metabolic modeling to interpret large volumes of biological data we are developing new technologies and predictive biological models for real-world applications. The successful candidate will join the team of young scientists to pursue his independent doctoral studies in highly interdisciplinary research within a field of modern computational biology.

Major responsibilities
Your major responsibilities are to pursue your own doctoral studies. You should be extremely curious about the basic science and carry a great interest to ask most challenging questions. You should always keep seeking for solutions to combine your ideas with existing opportunities into immediate actions. You must be always willing to learn and ask questions when you don't know. You should be a great team player willing to working in an highly collaborative international environment to share your ideas, express your opinions and expect to receive feedback and critics.

During your PhD studies, you are expected to develop your own scientific concepts and communicate the results of your research verbally and in writing. The position generally also includes teaching on Chalmers' undergraduate level or performing other duties corresponding up to 20 per cent of working hours.

Position summary
Full-time temporary employment. The position is limited to a maximum of 4 years.

Qualifications
To qualify as a PhD student, you must have a master's level degree within a related technical field (e.g. Chemical engineering, Biotechnology, Computer Science). The position requires sound verbal and written English communication skills. Candidates with a prior programming experience would be advatageous.

Chalmers continuously strives to be an attractive employer. Equality and diversity are substantial foundations in all activities at Chalmers.

Application procedure
The application should be marked with Ref 20170364 and written in English. The application should be sent electronically and be attached as pdf-files, as below:

CV: *(Please name the document: CV, Family name, Ref. number)*

• CV
• Other, for example previous employments or leadership qualifications and positions of trust.
• Two references that we can contact.

Personal letter: *(Please name the document as: Personal letter, Family name, Ref. number)*

• 1-3 pages where you introduce yourself and present your qualifications.
• Previous research fields and main research results.
• Future goals and research focus. Are there any specific projects and research issues you are primarily interested in?

Other documents:

• Copies of bachelor and/or master's thesis.
• Attested copies and transcripts of completed education, grades and other certificates, eg. TOEFL test results.

Please use the button at the foot of the page to reach the application form. The files may be compressed (zipped).

Application deadline: 18 September, 2017

For questions, please contact:
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