Doctoral (PhD) student position in cardiovascular magnetic resonance flow quantification

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Karolinska Institutet,

The Department of Molecular Medicine and Surgery (MMK) carries out both preclinical and clinical research within numerous fields. Linked to the department are approximately 450 researchers, postgraduate students, teachers and technical & administrative staff and we currently have about 150 PhD students. The department is conducting undergraduate courses for medical students, physiotherapist students, biomedicine students and biomedical laboratory students.

A doctoral position is an available doctoral education project to which a PhD student is to be recruited. After the selection process the process for admission to doctoral education will commence. An admission decision will not be taken until an individual study plan has been approved by the departmental admission board.

For more information regarding doctoral (PhD) education, see: http://www.ki.se/doctoral.

Research group

The Karolinska Cardiovascular Magnetic Resonance group belongs to the Unit of Clinical Physiology at the Karolinska Institutet and Karolinska University Hospital http://ki.se/mmk/karolinska-cardiovascular-magnetic-resonance-cmr-group

The group develops new imaging approaches and performs translational and clinical studies to improve the use of cardiovascular magnetic resonance (CMR) in diagnosis and treatment follow-up in heart disease. Our research interests are focused on how the heart works, and how we can learn more about the heart using medical imaging. The group's broad interests include heart failure, ischemic heart disease, myocarditis and basic cardiac pumping physiology. The group collaborates with cardiologists, cardiothoracic surgeons, radiologists, clinical physiologists, MR physicists and computer scientists.

The doctoral education project and the duties of the student

We are looking for a highly motivated person with a strong interest in improving and developing new diagnostic techniques in the field of cardiovascular magnetic resonance. The PhD project will involve clinical studies of flow quantification and quantitative myocardial tissue characterization using CMR. Area of responsibilities/duties include development of post-processing image analysis software to be used in a research, as well as a clinical, setting, as well as performing research experiments on healthy volunteers as well as clinically referred patients using CMR. The successful candidate is expected to play a critical role in formulating scientific research hypotheses, testing the hypotheses, study design, analyzing the data, presenting and interpreting the results, and writing scientific reports and articles.

Entry requirements for doctoral education at KI

To be eligible for doctoral education following requirements has to be met:

General entry requirements

A person meets the general entry requirements for doctoral/third-cycle/PhD education (according to Higher Education Ordinance Chapt 7, section 39) if he/she:

1. has been awarded advanced/second-cycle/master qualification (i.e. master degree) or
2. has satisfied the requirements for courses comprising at least 240 credits of which at least 60 credits were awarded in the second-cycle/master level, or
3. has acquired substantially equivalent knowledge in some other way in Sweden or abroad.

Specific entry requirements
Proficiency in English equivalent to the course English B/English 6 at Swedish upper secondary school:
Proficiency in the English language can be documented by an internationally recognized test such as TOEFL or IELTS, see web-link below for more information.
Applicants who meet the general entry requirements (1 or 2 above) from a university in one of the Nordic countries fulfill the requirements in English.

For more information regarding general and specific entry requirements:
http://ki.se/en/education/entry-requirements-eligibility-for-doctoral-education

Skills and personal qualities
The applicant should be self-motivated, have excellent analytical competence, and a high capacity to work productively in a team.

Experience with CMR, cardiovascular physiology, programming experience in MATLAB and/or image processing is an advantage. In addition to filling the formal eligibility requirements, the successful candidate has an MD degree.

Assessment criteria
A selection will be made among qualified applicants on the basis of the ability to benefit from doctoral education. Karolinska Institutet uses the following bases of assessment:
- Documented subject knowledge of relevance to the area of research
- Analytical skill
- Other documented knowledge or experience that may be relevant to doctoral studies in the subject

The qualifications of the applicants will be evaluated on an overall basis.

Terms and conditions
All doctoral students at KI receive financial support during their doctoral education and employment on a doctoral studentship is the most common sort of support. During the time between recruitment and admission a short-term employment can be offered for up to 6 months.

Application process
An application must contain the following documents in Swedish or English:

- A personal letter and curriculum vitae
- A copy of degree certificates and associated certificates
- A copy of degree projects and any previous publications

The application is to be submitted through the MyNetwork recruitment system.

Karolinska Institutet is one of the world’s leading medical universities. Its mission is to contribute to the improvement of human health through research and education. Karolinska Institutet accounts for over 40 per cent of the medical academic research conducted in Sweden and offers the country’s broadest range of education in medicine and health sciences. Since 1901 the Nobel Assembly at Karolinska Institutet has selected the Nobel laureates in Physiology or Medicine.

Pursuant to the regulations of the Swedish National Archives, applications are kept on file for two years after the appointment has gained legal force. The regulations do not apply to attachments that have been printed or otherwise published.

Karolinska Institutet strives to provide a workplace that has approximately the same number of women and men, is free of discrimination and offers equal opportunity to everyone.
For temp agencies and recruiters, and to salespersons: We politely, yet firmly, decline direct contact with temp agencies and recruiters, as well as those selling additional job announcements.

**Type of employment**  Doktorandplats

**Contract type**  Full-time/Part-time

**Reference number**  2-380/2017

**Contact**  Martin Ugander/Forskare, martin.ugander@ki.se

Michael Tekle, SACO, 08-517 73442, michael.tekle@ki.se

Nasrin Bavand-Chobot, OFR, Nasrin.Bavand@ki.se

Elisabeth Noren-Krog, OFR, 08- 517 70478

**Union representative**

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**Dela länkar**

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