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Senior Lecturer

Ecole/Institution/Société:
Karlstad University, **Sweden / Karlstad**

Discipline:
Computational Sciences

Type d'emploi::
Full-time

Date de publication:
2021-03-06

Personne à contacter:
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Senior lecturer in Computer Science

Description

The Department of Mathematics and Computer Science hereby invites applications for a permanent senior lectureship in Computer Science with a specialization in operating systems, real-time systems, and Internet of Things.

The Department of Mathematics and Computer Science consists of two research subjects, Mathematics and Computer Science, and has a staff of over 70. The research and education in Computer Science is focused on data communication and distributed systems, cybersecurity and privacy, and software engineering.

 The Department works closely with international, national, and regional partners from the academic community as well as private business. Computer Science is developing a new Master's (120 credits) program in Networked Systems and Cybersecurity to reinforce its core areas and strengthen its international position in education and research.

As senior lecturer, you will be included in and bolster one of the established research groups in Computer Science.

- DISCO (Distributed Systems and Communication), whose research includes internet protocols, wireless systems, edge / cloud services, and next generation technologies, such as programmable networks, SDN / NFV, and 5G.
- PriSec (Privacy and Security), currently focusing on different aspects of cybersecurity such as network security, privacy-enhancing technologies, and data security and privacy.
- SQuaD (Software Quality and Digital Modernization), whose areas of study include software architecture degradation and other forms of technical debt, quality assurance techniques, such as testing, for long-living systems, and the design and evolution of security- and privacy-critical systems.

Research is primarily funded through external projects, such as international and national projects funded by the EU's Horizon 2020, the Swedish Foundation for Strategic Research, the Knowledge Foundation, and the Swedish Internet Foundation.

The new senior lecturer will play a vital role in the continued evolution of the Department's education on operating systems, real-time systems, and Internet of Things. We are looking for a

driven candidate with solid experience in research and teaching related to operating systems, real-time systems, Internet of Things, or an adjacent field relevant to the position.

Duties

Applicants are expected to further the evolution of the Department's research in operating systems, real-time systems, and Internet of Things by conducting high-quality research, expanding our international network, and contributing to an increase in research funds on a national and international level .

The research is expected to bolster one or more of the Department's research groups. You will also be expected to actively contribute as a teacher for first-cycle and second-cycle courses.

Given that our new Master's program in Networked Systems and Cybersecurity is still under development, the content of the program may be adjusted based on the applicant's profile.

Duties also include supervision of doctoral students, course administration and development, and degree project supervision on first-cycle and second-cycle levels. The applicant that is ultimately offered the position will be expected to teach and supervise students partly in Swedish within a couple of years.

The position includes a research component of at least 50% for the first four years. After that there will be an opportunity to keep the research component at 50% or more depending on access to external funds and the direction of the Department and research group.

To contribute to a positive work environment and further the department's activities, we expect you to be a present and active part of the day-to-day operations.

Qualification requirements

- To be eligible for the position of senior lecturer, applicants are required to hold a PhD in Computer Science with a specialization in operating systems, real-time systems, Internet of Things, or another field relevant to the position, or hold equivalent qualifications.
- The position also requires proven pedagogical skills based on solid, broad, and up-to-date knowledge about operating systems, real-time systems, or Internet of Things, and related areas in Computer Science, and documented and established knowledge about learning and examination .
- Pursuant to the Karlstad University appointments procedure, teachers must possess the personal qualities required to perform the duties involved, as well as a completed course in higher education pedagogy.
- In special circumstances, the course in higher education pedagogy may be completed within two years of employment as part of the professional development commitment. For more information about general eligibility, go to Karlstad University's Appointments Procedure: Appointments procedure KAU
- An excellent command of spoken and written English is required.

Assesment criteria

Equal weight will be given to pedagogical and research skills. Special weight will be given to documented pedagogical experience and skill, especially with regard to operating systems, real-time systems, and Internet of Things, and related areas. Weight will also be given to documented scientific skill and the applicant's experience with national and international research projects in collaboration with partners from the academic community and from private business.

Special weight will be given to how well the applicant can be expected to enhance one of the

Department's existing research groups and to the research potential of the applicant (performance during the last five years).

Karlstad University places great value on personal qualities such as the ability to cooperate, a positive attitude towards colleagues and students, and showing initiative, and for that reason documented experience and skill related to this is a valuable qualification.

Terms

This is a permanent full-time position starting in August 2021, or as agreed upon by both parties. A probationary period may be required.

Further information

Karlstad University places great value on the enriching presence of diverse backgrounds and gender balance in the organization. We welcome applicants with different cultural backgrounds, gender identities, functional abilities, and life experiences.

Application

Applicants are responsible for submitting a complete application in accordance with the advertisement and for ensuring that the documentation allows for objective and qualitative assessments. A complete application should be submitted no later than the application deadline. For advice on how to draft your application, refer to "Application Guidelines for the appointment / promotion of professor or senior lecturer" Application guidelines KAU

The application should include:

- Cover letter describing your qualifications and qualities with regard to the position
- CV, including no less than three references
- An in-depth account of teaching experience, formal teacher training, and teaching philosophy
- An in-depth account of research activities and a plan for future research
- An account of other experiences, such as managerial, collaborative, and administrative experience
- List of publications
- Copies of course transcripts, degree certificates, and other certificates
- No more than 10 scientific publications and no more than 5 materials intended to convey knowledge, such as textbooks, computer programs for teaching, or popular science articles.

Submit the application via the University's web-based recruitment tool, Varbi. Attach all the documents and publications you wish to be considered to the electronic application (do not just provide links to them). Documents that cannot be submitted electronically, such as books, publications, or computer programs, should be sent in triplicate to:

Karlstads universitet, Registrar,

651 88 Karlstad

State the ref.no. REK2020 / 244

We look forward to your application!

Type of employment: Permanent position

Contract type: Full time

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Salary: Manadslon

Working hours: 100

City: Karlstad

County: Värmlands län

Country: Sweden

Reference number: REK2020 / 244

Contact: Stefan Alfredsson, +46 54 700 16 68

Anna Brunström, +46 54 700 17 95

Union representative:

- Thomas Bragefors, SACO, 054-700 1714
- Denita Gustavsson, OFR, 054-700 1434
- Tony Ingemarsson, Lärarförbundet, 054 700 1404

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