

Postdoctoral Fellow

Ecole/Institution/Société:

Uppsala University, Sweden / Uppsala

Discipline:

Machine Learning

Type d'emploi::

Full-time

Date de publication:

2019-08-23

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech

Postdoctoral fellow in Computer Science specializing in the application of machine learning to memory systems

Uppsala University is a broad research university with a strong international standing. The task is to conduct research and education of the highest quality and to cooperate with society in various ways. Our most important asset is all the individuals who, with their curiosity and commitment, make Uppsala University one of the country's most exciting workplaces. Uppsala University has 44,000 students, 7,100 employees and a turnover of SEK 7 billion.

The Department of Information Technology has a leading position in both research and education at all levels. The department has about 200 employees, including 80 senior researchers and 80 doctoral students. More than 3000 students are enrolled in one or more courses each year. For more information, see www.it.uu.se .

Job description:

The project attacks how we can use machine learning to improve the memory system in computers. The project will use machine learning both as a tool to optimize the development of the system (offline) and to improve dynamic behavior (online). The postdoctoral service is part of the Automating System Specific Model-Based Learning (ASSEMBLE) project. In this project, researchers in machine learning, automatic control, compiler and computer architecture collaborate to develop new tools that support the use of machine learning in new areas.

The postdoctoral practitioner will work with machine learning experts and researchers to understand how to apply and integrate "Probabilistic Programming" and neural networks to improve the memory systems of computers. Expected results are new ways to use such tools for offline as well as online optimization of data placement in the memory system. The candidate is expected to take an active part in the supervision of doctoral students. More information about ASSEMBLE can be found at: <http://www.it.uu.se/research/assemble> .

The position is two years and may include teaching in Swedish or English depending on availability and the candidate's interests.

Qualifications:

- The candidate must have a doctoral degree, or a foreign degree that is deemed to correspond to a doctorate degree, in computer science or another area relevant to the

subject. The degree must have been completed no more than three years before the end of the application period. If there are special reasons, the degree may be older than three years. Special reasons refer to leave due to illness, parental leave, trust assignments within trade unions etc.

- We are looking for a candidate with expertise in computer architecture and / or memory systems research. The applicant must prove high self-motivation in the application. The applicant must be able to work well in groups, be good at giving and receiving constructive criticism and have a strong ability for critical thinking and structured work. These competencies are as important as the technical qualifications.
- Excellent knowledge of oral and written English is a requirement.

Desirable / other qualifications:

- Experience in machine learning is a big advantage, but not a requirement because we have experts in the project that can help the candidate learn what is needed.

Application:

The application must include a detailed (max. 2 pages) description of 1) research interests, 2) relevant qualifications for the position, 3) description of doctoral dissertation, 4) reasons for choosing to work on this project, and 5) proof of how the applicant is self-motivated. and can work in a team. The application must also include a resume (CV), a copy of the relevant grading documents (translated into Swedish or English), a copy of the doctoral dissertation, a copy of all publications and a description of the candidate's specific contribution, and possibly. other relevant documents. In addition, the applicant shall provide at least one letter of recommendation and contact information to reference persons and indicate the earliest possible date of employment.

Uppsala University values the qualities that equal gender distribution and diversity add to the business. We therefore like to see applicants of all genders and with different birth backgrounds, functionality and life experience.

Salary: Individual salary setting.

Admission: By agreement.

Scope of employment: 100%

Information about the position is provided by: Professor David Black-Schaffer, tel. 018-471 6830 david.black-schaffer@it.uu.se or Professor Thomas Schön, tel. 018-471 2594, Thomas.schon@it.uu.se

We waive our offer of recruitment and advertising assistance. The application is received in Uppsala University's recruitment system.

Placement: Uppsala University, Department of Information Technology

Type of employment: Full-time, Temporary employment longer than 6 months

Salary: Individual salary setting.

Number of vacancies: 1

Employment rate: 100%

Location: Uppsala

County: Uppsala County

Country: Sweden

Trade union representative: Seko Universitetsklubben seko@uadm.uu.se

ST / TCO tco@fackorg.uu.se

Saco-council saco@uadm.uu.se

Reference Number : UFV-PA 2019/2492

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech