PostDoc fellowship in Computer Science with specialization in Information Visualization and Visual Analytics

placed at Linnaeus University, Department of Computer Science, Faculty of Technology, Växjö, Sweden (lnu.se)

Job status: full time, no longer than a maximum of two years
Location: Växjö, Sweden
Subject Area: Computer Science with specialization in Information Visualization and Visual Analytics
Reference number: 2016/727-2.2.1

Linnaeus University is a modern, international university with Småland as its base and the world as its stage. We combine curiosity, creativity and utility with an entrepreneurial thinking in education and research. Seeing possibilities and believing in the future is part of what we do every day. We now strengthen our prominent research by recruiting 21 postdoctoral fellows.

The Department of Computer Science carries out research in three main subjects: Program Analysis and Information Quality, Information Visualization and Visual Analytics, and Software Architecture and Self-Adaptive Systems. Currently, 32 staff members work at the Department, running various national and European projects that focus on both fundamental and applied research. The department has a strong connection with the environment and in this capacity leads the Information Engineering Center that provides an IT cluster and meeting place for research, industry and public actors.

The advertised position will be placed in the ISOVIS group (http://cs.lnu.se/isovis/) led by Professor Andreas Kerren. The research group mainly focuses on the explorative analysis and visualization of typically large and complex information spaces, for example in biochemistry, humanities, or software engineering. Our vision is to attack the big data challenge by a combination of human-centered data analysis and interactive visualization for decision making. These research topics are highly relevant for academia and economy as both science and industry make increasing use of data-intensive technologies.

*** Duties ***

- Research within the fields of information visualization and visual analytics.
- Regularly present intermediate/final research results at international conferences and workshops, and publish them in conference proceedings and journals.
- Close collaboration with the other members in our interdisciplinary research environment as well as domain experts.
- At most 20% time can be dedicated to teaching and other departmental tasks.

*** Qualification requirements ***

The postdoc position requires a PhD degree in Computer Science, or a foreign degree equivalent to a PhD, and who has completed the degree no more than three years before the application deadline.
Eligibility for this position also requires that the doctoral thesis has a focus on information visualization, visual analytics, or closely related fields.

*** Assessment criteria ***

Excellent knowledge in the focused research areas of information visualization and visual analytics is a strong advantage. Good programming skills (Java, JavaScript, HTML5, WebGL/OpenGL) and a solid
training in mathematics and computer graphics are highly preferred. Documented expertise and working experience within at least one of the following research and educational areas is a great advantage:

- (Multivariate/Temporal) network visualization
- Collaborative visual analysis and interaction
- Visual analytics of Big Data
- Multidimensional visualization techniques in combination with machine learning and/or data mining techniques
- Visual text analytics
- Experiences in specific application domains and their visualization needs, such as in systems biology, social sciences, etc.

Excellent written and oral communication skills in English are required. Teamwork experiences should also be documented in the application. Since the subject is male-dominated, we encourage female applicants. Applicants will be selected through a qualitative overall assessment of the competences and skills, assessed most suitable to conduct research and to contribute to a successful development of the research environment.

*** Further information and contact ***

Professor Andreas Kerren, phone number: +46 470 767502, email: andreas.kerren@lnu.se, or web: http://homepage.lnu.se/staff/akemsi/ and http://cs.lnu.se/isovis/.

The application (in English) must be registered online no later than March 31, 2016, via the following link:


The application must include a cover letter, CV, degree certificates, a list of relevant publications (incl. theses, reports, etc.), and the contact information of three referees. In addition, a link to the candidate’s PhD thesis should be provided.

Linnaeus University has the ambition to utilize the qualities that an even gender distribution and diversity brings to the organization.

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