

Post-Doc Position in Bioinformatics With Focus on Comparative/Evolutionary Genomics

The position is at the Department of Molecular Biology and within the Computational Life Science Cluster (CLiC) at Umeå University, Sweden

Job description: The successful applicant will have the possibility to work in several projects and on a wide range of organisms applying various aspects comparative genomics. The work will be in close contact with leading researchers in experimental biology and the successful applicant is expected to take an active part in planning, analysis, evaluating and publishing of scientific projects.

Focus of the research group: Gene expression in animals and plants is an intricate interplay between transcription factors and a plethora of factors that targets and modifies the three dimensional structure of chromatin. Thanks to the rapid evolution of genome wide mapping techniques we now have access to vast amounts of data regarding transcription, transcription factors, chromatin modifications and remodelers. The problem is to make sense of all these data in order to understand how correct gene regulation is achieved in a eukaryotic cell as well as to establish links between chromatin and expression. We also need to understand how all the proteins that interact with chromatin are targeted to their sites of action. By developing bioinformatics approaches and combining those with genetics approaches and genome mapping of chromatin factors we hope to contribute to the understanding of the complex networks that control gene regulation in higher organisms.

In addition we have a number of projects on genome evolution and metagenomics in prokaryotes. These projects include *de novo* sequencing and analysis of individual genomes as well as environmental samples.

Required qualifications:

- PhD degree in an appropriate area
- Proficiency in both written and spoken English
- Experience in working with genomics data, NGS and bioinformatics
- Documented experience in comparative/evolutionary genomics
- Programming experience

Desired qualifications:

- Expertise in statistics and statistical genetics
- Theoretical knowledge of genetics, epigenetics and molecular biology

Salary: 21 800 SEK tax free stipend/month (approximately 2420 EUR/month)

Duration: The position is for two years.

Starting date: Fall 2014

Application: Send your application and questions to Dr. Per Stenberg (Per.Stenberg{at}molbiol.umu.se). Only complete, electronic applications will be considered. Write "CG2014" as the subject of the e-mail. The application should include:

- Personal letter describing your fulfilment of the required and desired qualifications listed above
- CV and list of publications
- Relevant publications in pdf-format
- Copies of important certificates
- Two to three references with contact details

Deadline: The position will be open until a suitable person is found.