Master thesis or internship at the SNP&SEQ Technology platform

As a part of the National Genomics Infrastructure (NGI) at the Science for Life Laboratory (SciLifeLab, www.scilifelab.se), the SNP&SEQ Technology Platform in Uppsala provides SNP-genotyping and Next Generation Sequencing (NGS) technology to academic researchers in and outside of Sweden (www.sequencing.se). Next generation sequencing instruments at the platform include the Illumina MiSeq, HiSeq2500, and HiSeqX machines.

Have a burning interest in visualization?
Do you like building beautiful as well as functional things? Do you want to be a part of the genomics revolution? We are looking for a highly motivated individual to develop a web frontend to our quality control database. This task can be carried out either as a 5 month internship or as a master thesis project depending on the wishes of the candidate.

As a successful candidate you'll be joining a creative team of bioinformaticians and system developers that develop solutions for handling the petabyte scale data generated by our sequencing instruments.

The goal of the project is to provide a dynamic interface where longitudinal quality control data can be queried, visualized and exported. This will include re-implementing a number of features currently available in a working prototype, as well as expanding into new functionality.

Requirements

- Excellent web-frontend development skills, working with HTML, CSS and Javascript
- Basic back-end development skills, preferably working with Python or Scala
- Basic knowledge of SQL
- Basic proficiency in working in a Linux environment
- Excellent verbal and written communication skills in English

The SNP&SEQ Technology platform is looking for a person with a high degree of self-motivation, attention to detail, sense of responsibility, and ability to work both independently and in a team. Emphasis will be put on personal qualities such as a positive attitude and ability to cooperate.

Other merits

- Previous experience working with Javascript chart-libraries such as d3.js
- Documented experience in working with open-source projects
- Experience working with version control (especially git)
- Experience in software testing
- Experience from working with large-scale data
Knowledge in molecular biology and sequencing technologies is not required but could be regarded as a merit. Proficiency in Swedish is desired, but not required.

Apply
Submit your application to: johan.dahlberg@medsci.uu.se
Deadline for application is: 31/10 2015
Include a cover letter explaining why you want to apply for the position, your curriculum vitae and any other information that might be of interest, such as portfolios and github-repositories.