

2017-04-21



Degree-project, 30 credits, at Q-linea AB

Q-linea, founded in 2008, consist of a team of enthusiastic people with a variety of expertise; molecular and micro-biologists, mechanical and software engineers, senior administration, project management, and financial staff and is located at Uppsala Science Park. Our focus is procedures, instruments, and systems for protein and nucleic acid analysis, particularly with applications in the field of microorganism detection and identification and for *in vitro* diagnostics.

The last years have shown a dramatic change in how *in vitro* infectious disease diagnostics are performed at hospitals worldwide with the adaption of nucleic acid and mass-spectrometry methods for pathogen identification, in contrast to traditional phenotypic methods. For sensitive, rapid diagnostics, nucleic acid techniques are still un-surpassed. However, rapid nucleic acid technologies as of today requires some knowledge about the target sequences to be interrogated. One great hurdle identified is thus access to correct and sufficient number of genomic sequences from clinical isolates. There is currently a major effort ongoing to generate large datasets of clinical sequences available. This causes a bioinformatic challenge, how to use the information as well as how to cope up to date with the available information?

We are looking for a Master's level student in bioinformatics, molecular biology or biotechnology for a project during fall 2017. The student will learn to work with bioinformatic tools, programming (C++, Pearl, Java and C-sharp) in a team of software engineers in collaboration with molecular and micro-biologists at Q-linea. The student will be given responsibility for planning, from a given problem, execution and reporting of the results.

Q-linea offer a successful applicant to be part of a team that tackle the major health problem sepsis, a clinical syndrome that currently kills one persons every three seconds worldwide.

Please send your application to:

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