



Master Projects in Bioinformatics

are available at the Stockholm Bioinformatics Centre (<http://www.sbc.su.se/>), which is located at AlbaNova University Centre, next to both Stockholm University and KTH (the Royal Institute of Technology). Projects of 20 weeks are offered in different areas of algorithm development, genome comparison, network reconstruction, or functional/evolutionary analyses. After successfully completing a master project, possibilities exist to continue as a PhD student.

Project 1: Investigation of orthology and functional divergence. The Sonnhammer groups has established several comprehensive ortholog databases. Orthologs are genes in different species that derive from a single gene in the last common ancestor. Ongoing projects improve the prediction of how functional divergence of orthologs depends on sequence-derived features.

Project 2. Investigation of functional protein networks by multi-species system biology techniques. The goal is to discover and explore networks of functionally coupled proteins through integration of heterogeneous genomics and proteomics data sources. Investigations of both novel machine learning techniques and new data types are undertaken.

Project 3. Evolution of protein domain architecture. The goal is to understand how domain architecture specifies protein function, and to understand the rules governing the assembly of complex architectures.

Qualifications: students should have experience of computer programming and good command of standard bioinformatics analysis tools for sequence analysis and database searching. A high level of motivation and a keen interest of solving biological problems with bioinformatics is wanted. Please apply by sending your CV (including information about your grades) and the email address of a reference person to:

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For further information:

Sonnhammer publications: <http://sonnhammer.sbc.su.se/publications.html>

Stockholm Bioinformatics Centre: <http://www.sbc.su.se>

Stockholm University: <http://www.su.se> ; <http://www.dbb.su.se>

KTH: <http://www.kth.se>; <http://www.csc.kth.se/>