Job Advertisement Agroscope

Title
Post Diploma student
Area: Functional Genomics and Bioinformatics

The research group Molecular Diagnostics, Genomics and Bioinformatics fulfills legal tasks and contributes to three core research areas of Agroscope: to increasingly use microbiomes and isolated strains, to develop core competences in functional genomics and bioinformatic data analysis and to contribute to a reduction of the use of plant protection agents and pesticides.

Tasks
- De novo genome assembly using NGS data of different technologies (Illumina, PacBio, Oxford Nanopore Technologies) and genome annotation of microorganisms (bacteria, yeasts, fungi)
- Comparative genomic analyses to identify core, accessory and strain-specific genes of strains isolated from microbiomes (comparison to known strains)
- Data analysis of RNA-Seq data (differential gene expression analysis), gene set enrichment analyses
- Data analysis of proteomics data
- Preparation of scientific reports, contribution to publications
- Maintenance /extension of existing data analysis pipelines (genome assembly, transcriptomics)

Competences
- Recently finished Master’s degree (FH, ETH or University)
- Motivated scientist with a degree in IT/Bioinformatics/Microbiology
- Experience in the analysis of functional genomics data (genome assembly, comparative genomics, RNA-Seq, pathway analysis)
- Knowledge in the analysis of metagenomics data and/or proteomics data is a plus
- Solid programming experience (Linux scripting/bash, R, Python), experience managing virtual systems
- Knowledge of German and English (oral, written)
- Strong team player with good communication skills

Information about the employer
Agroscope is the Swiss centre of excellence for research in agriculture, nutrition and the environment. Researchers carry out their work at multiple locations in Switzerland. The main site is Bern-Liebefeld. Agroscope is affiliated with the Federal Department of Economic Affairs, Education and Research EAER.

What we offer: Competent supervision and guidance in the frame of our research group, insights into a highly interesting field at the interface of research and practical applications, options for further education, contemporary working conditions and an attractive infrastructure.

Starting date: September 1, 2020 OR based on agreement; duration: 12 months.

Work location
Wädenswil, Reckenholz (ZH)

Level of employment
100 %

Contact
If this position interests you and you fulfil the profile of requirements, we look forward to receiving your online application: human.resources@agroscope.admin.ch (Ref.nr. 42055). Closing date: May 31, 2020 (or until position is filled). For further inquiries, please contact Dr. Christian Ahrens (team leader Functional Genomics & Bioinformatics, group leader Swiss Institute of Bioinformatics); christian.ahrens@agroscope.admin.ch /Tel. +41 58 460 61 14. /www.agroscope.ch /www.sib.swiss/christian-ahrens-group