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JOB OFFER

Senior/Junior Computational Biologist / Bioinformatics Scientist

Fondazione The Microsoft Research - University of Trento Centre for Computational and Systems Biology (COSBI)

Location: Rovereto, Italy

Contract: Maternity leave replacement contract

Start: May/June 2026

About Us

COSBI is a research center focused on computational and systems biology and their applications in pharmacology and precision medicine. We work at the interface of biology, data science, and translational research, in close collaboration with academic, clinical, and industry partners.

Job Description

We are seeking a motivated Computational Biologist / Bioinformatics Scientist to join the Systems Biology team and contribute to ongoing projects. The role focuses on applying computational approaches to investigate complex biological systems, analyze and integrate omics data, generate hypotheses for novel therapeutic targets, and identify potential drug repurposing opportunities.

This position offers the opportunity to work in a collaborative and multidisciplinary environment, interact with internal and external partners, and contribute to research at the interface between academia and industry.

Responsibilities

- Apply and develop computational methods to analyze and integrate biological data, with a particular focus on multi-omics datasets.
- Develop and implement innovative computational approaches for therapeutic target identification and prioritization.
- Collaborate with internal multidisciplinary teams and external research partners.
- Contribute to ongoing projects and, for senior candidates, supervise and coordinate project activities.
- Communicate research outcomes through regular meetings with collaborators and publications in peer-reviewed scientific journals.

Qualifications

- Junior candidates: M.Sc. in Computational Biology, Quantitative Biology, Bioinformatics, Systems Biology, Biostatistics, or a related field.
- Senior candidates: Ph.D. in Computational Biology, Quantitative Biology, Bioinformatics, Systems Biology, Biostatistics, or a related field.



- Proficiency in bioinformatics-oriented programming languages (R, Python), with familiarity with version control systems (Git) and containerized environments (Docker, Apptainer). Experience with workflow management systems (Snakemake, Nextflow) is considered a plus.
- Proven experience in the analysis of large-scale omics datasets, particularly genomics and transcriptomics, including both bulk and single-cell RNA-seq data. Candidates should be comfortable with end-to-end analytical workflows, including preprocessing, quality control, normalization, differential expression analysis, integrative analyses, cell population characterization, and biological interpretation of complex datasets.
- Familiarity with graph-based methods and network analysis applied to drug target identification, computational target prioritization, and drug repurposing is desirable.
- Excellent problem-solving skills and the ability to work both independently and collaboratively.
- Strong communication skills; scientific publications and conference presentations, commensurate with career stage, are highly valued.

How to Apply

Please send the following documents as a single PDF file to hr@cosbi.eu:

- Curriculum vitae (CV), including educational background, research experience, and relevant publications
- Cover letter describing your research interests, motivation, and suitability for the position

Please use “**Application - Systems Biology**” as the subject line of your email.

Only shortlisted candidates will be contacted. COSBI is an equal opportunity employer and considers all qualified applicants without regard to race, color, creed, religion, national origin, sex, sexual orientation, gender identity or expression, or age.