

Postdoc Position — Computational Genomics Research Group, Institute of Genetic Epidemiology

The [Computational Genomics](#) group at the Institute of Genetic Epidemiology, Medical University of Innsbruck, is looking for a postdoctoral researcher to work at the forefront of computational genomics, applying machine learning and statistical methods to cardiovascular genetics.

Our Research

Our institute brings together computational genomics, wet-lab, genome informatics, and epidemiological research groups. The institute also develops and maintains groundbreaking community resources such as the [Michigan Imputation Server](#), a free, cloud-based service that has imputed genotype data for millions of samples from research groups worldwide.

The Computational Genomics group develops computational tools to decode complex genomic regions at scale. We work with large population cohorts, translating computational findings into biological and clinical insights in close collaboration with wet-lab partners within the institute.

Research Focus

Specific research directions for this position include:

- Contributing new methodological expertise from quantitative STEM disciplines that complements and extends the team's capabilities,
- Developing and applying machine learning and computational methods to omics data, with a focus on the Lp(a) locus and other complex genomic regions,
- Mentoring and co-supervising PhD students with a quantitative background.

Candidate Profile

Required:

- PhD in computer science, artificial intelligence, mathematics, physics, or a related quantitative field
- Strong programming skills (Python, Rust, Java, or equivalent)
- Strong background in machine learning, deep learning, or statistical modeling

Advantageous:

- Experience with genomic or multi-omics data analysis
- Familiarity with statistical genetics (imputation, GWAS, fine-mapping)
- Experience with HPC or cloud computing environments
- Experience supervising or mentoring students

What We Offer

- Full-time postdoctoral position for 4 years, start date flexible (salary: €70,200.20 gross/year, FWF/MUI scale)
- Close integration with the Faculty of AI and Scientific Computing (aiscm.i-med.ac.at)
- Access to state-of-the-art on-campus GPU and CPU computing clusters
- Collaborative, interdisciplinary research environment with opportunities for international collaboration and career development
- Innsbruck offers a great quality of life in an alpine setting, with excellent rail connections to Munich, Milan, and Zurich

How to Apply

Applications are reviewed on a rolling basis until the position is filled. Please send the following documents to Sebastian Schönherr at sebastian.schoenherr@i-med.ac.at:

1. Cover letter describing your research interests and relevant experience
2. CV, including your main publications or projects and your role in each
3. Contact details of 2–3 referees

Contact

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