



Universität Zürich
Jacobs Center for Productive Youth Development
Andreasstrasse 15
CH-8050 Zurich
Telefon +41 44 634 06 81
Telefax +41 44 634 06 99
www.jacobscenter.uzh.ch

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POST DOCTORAL FELLOWSHIP (for up to 4 years)
Jacobs Center for Productive Youth Development, University of Zürich, Switzerland

Prof. Mike Shanahan at the University of Zürich invites applications for a Post Doctoral Fellowship with a strong interest in the interplay among context, behaviour, and gene expression.

The position is part of the research project "**Socioeconomic status and the regulation of the genome**" funded by the Swiss National Science Foundation. The main goal of this project is to use data from the US, the Netherlands, and Switzerland to examine how education, income, and occupation are correlated with gene expression patterns (mRNA abundance levels), as well as the mechanisms that might explain these correlations.

This position will focus on data collected in the United States (as part of Add Health) and, to a lesser degree, in the Netherlands (as part of the National Twin Register). The main **goal of this position** is to develop models that examine correlations among socioeconomic status and gene expression profiles, as well as possible mediating mechanisms. The PhD candidate will work as part of an international team that includes a demographer, statistician, data analyst, a specialist in social genomics, and Prof. Mike Shanahan, the Lead Investigator.

Requirements:

PhD (discipline is open) with strong quantitative training. Working knowledge of transcriptomic data and bioinformatics is a plus, as is a solid background in R. Strong methodological knowledge and skills, good command of English (German is also "a plus"), and interest in pursuing an academic career. The successful candidate should have excellent teamwork skills and be interested in going beyond disciplinary boundaries. Energy, focus, and critical thinking are assets.

Research environment:

We offer work in an interdisciplinary, international, and collegial environment located at Jacobs Center for Productive Youth Development, the University of Zürich. The 100% position comes with up to CHF 101,030 annually (for up to 4 years) depending on experience. In addition, some travel funds are available each year to visit national and international conferences or attend workshops.

Application:

The review of applications will begin immediately and continue until position is filled. The position will start 1 May 2021.

Applications should include:

- (i) a cover letter that relates the applicants' experience and interests to the project
- (ii) a comprehensive CV
- (iii) a copy of the PhD dissertation
- (iv) the names and contact information of at least two references.



- (v) Candidates for the position are additionally required to submit an R code sample (URL or attachment).

Please send the documents in **one PDF file** to Prof. Mike Shanahan (michael.shanahan.uzh@gmail.com).