

Postdoc Position in Metagenomics & Computational Biology

100%, Zurich, fixed-term

The Environmental Microbiology group is inviting applications for a Postdoctoral position in Computational Biology & Metagenomics. The group is led by Prof. Marie Schoelmerich and located in the Department of Environmental Systems Sciences, ETH Zürich. The Environmental Microbiology group is dedicated to illuminating the fascinating world of anaerobic microbiology from the global scale to the microscale. We focus on microorganisms that use an ancient pathway to capture and convert the greenhouse gases carbon dioxide and methane. Through a combination of metagenomics, classic microbiology, and biochemistry, we aim to decipher the influence of anaerobic microorganisms on biogeochemical cycles and seek to identify the molecular elements and mechanisms driving these processes. The long-term goal of our research is to illuminate fundamental mechanisms and principles of environmental processes and inspire sustainable technologies.

Project background

The position is a full-time position (100%) initially limited to one year, with a possibility of extension. The expected start date is early 2025.

Job description

We are looking for a Postdoc to spearhead metagenomics and computational biology in the Environmental Microbiology group. The candidate will:

- Identify extrachromosomal elements in metagenomic datasets and analyze them *in silico*
- Establish a metagenomic and computational software infrastructure
- Communicate findings at conferences and through high-quality publications
- Mentor and train graduate, master, and bachelor students

Profile

- Ph.D. in bioinformatics, microbiology, or a related discipline with proven training and an experience in metagenomics
- Proficient in Python and Bash
- Experience with Linux environments
- Excellent interpersonal communication, teamwork, and organizational skills
- Strong oral and written communication skills in English

Workplace



We offer

- Support for career goals through conference travel and workshops
- Encouraging and collaborative research environment
- Cutting-edge computational infrastructure
- Exciting working environment, cultural diversity and attractive offers and benefits
- Family-friendly employer with excellent working conditions (e.g., flexible working hours, home office)

> [Working, teaching and research at ETH Zurich](#)

We value diversity

In line with [our values](#), ETH Zurich encourages an inclusive culture. We promote equality of opportunity, value diversity and nurture a working and learning environment in which the rights and dignity of all our staff and students are respected. Visit our [Equal Opportunities and Diversity website](#) to find out how we ensure a fair and open environment that allows everyone to grow and flourish.

Curious? So are we.

We look forward to receiving your online application with the following documents:

- Cover letter
- CV including publication list
- Contact details of two references

Please note that we exclusively accept applications submitted through our online application portal. Applications via email or postal services will not be considered. The deadline for applications is 30 October 2024.

Further information about the Environmental Microbiology Group in the Department of Environmental Systems Sciences can be found on our [website](#).

Questions regarding the position should be directed to Prof. Marie Schoelmerich, marie.schoelmerich@usys.ethz.ch (no applications).

About ETH Zürich

ETH Zurich is one of the world's leading universities specialising in science and technology. We are renowned for our excellent education, cutting-edge fundamental research and direct transfer of new knowledge into society. Over 30,000 people from more than 120 countries find our university to be a place that promotes independent thinking and an environment that inspires excellence. Located in the heart of Europe, yet forging connections all over the world, we work together to develop solutions for the global challenges of today and tomorrow.