

The Swiss Tropical and Public Health Institute (Swiss TPH) is a world-leading institute in global health with a particular focus on low- and middle-income countries. Associated with the University of Basel, Swiss TPH combines research, services, and education and training at the local, national and international level. About 850 people from more than 80 nations work at Swiss TPH focusing on infectious and non-communicable diseases, environment, society and health as well as health systems and interventions.

Within the Department of Epidemiology and Public Health (EPH), our Unit Environmental Exposures and Health (EEH) is focused on research related to various environmental exposures, including air pollution, noise, airborne pollen, heatwaves, green space and electromagnetic fields.

We are now looking for a

PhD candidate in transportation noise epidemiology (80-100%)

Project

Your PhD project, funded by the Swiss National Science Foundation (SNSF), will address several important research questions in relation to acute and long-term health effects from transportation noise to enhance our understanding of effective individual and population-level prevention measures. You will investigate acute effects of military aircraft noise on mental health in patients of a psychiatric clinic located near a military airport. To do so, you will conduct noise measurements and combine with modelling for a time series analysis on acts of aggression, daily hypnotic drug consumption and mental health symptoms of patients. In a second project you will elucidate the interplay of long-term road traffic noise exposure, physical activity and sleep for various cardio-metabolic biomarkers in a sample of 650 individuals in the age range of 20 to >80 years by applying sophisticated epidemiological data analysis methods.

The successful candidate will be employed by Swiss TPH at the standard salary rate for doctoral students defined by the SNSF. The PhD position will be for a period of three years. The working place will be Swiss TPH – an institute associated with University of Basel, Basel, Switzerland. The position may start from 1 August 2021 onwards.

Experience and skill requirements

We are looking for candidates with the following qualifications:

- Master degree level in epidemiology, natural science, medicine, data science, statistics, psychology, or a similar field with strong experience in quantitative data analysis
- Knowledge in biostatistics and practical experience in data analysis using statistical software (e.g. R, Stata)

- Broad interest in environment and health research
- Strong spirit of team work and initiative and open for collaboration across scientific fields
- Ambition to contribute to scientific progress as well as to performing societal relevant research
- Ability to work independently and have good verbal and written communication skills in English (required) and German (highly desirable)
- Experience in processing and managing big datasets and with using geographic information systems (ArcMap, QGIS, R) would be an asset
- Good communication and organizational skills

Please submit your application online via the link provided below

We look forward to receiving your online application (in English) with:

- Motivation letter
- CV
- Relevant certificates and diploma
- MSc course transcripts including grades
- Names and contact information (email or phone) of 2 references

Please note that we can only accept applications via our online recruiting tool: <https://recruitingapp-2698.umantis.com/Jobs/All> Applications via e-mail or external recruiter will not be considered.

There is no closing date for application, but we encourage applicants to submit their application as soon as possible. As long as the position is published on the website of Swiss TPH it is still open.

Swiss TPH is an equal-opportunity employer committed to excellence through diversity.

Contact

For further information please visit the websites of our institute (<https://www.swisstph.ch/en/>) and -- more specifically -- of our unit <https://www.swisstph.ch/en/about/eph/environmental-exposures-and-health/>

For additional information please contact martin.roosli@swisstph.ch.

Job Profile

Start Date: from 1 August 2021 onwards

Location: Basel, Switzerland

Duration: limited, three years

Percentage: 80-100%