



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), the Disease Modelling unit and the Human and Animal Health unit are offering a:

## PhD position in mathematical epidemiology

The position is in the area of transmission dynamics of dog rabies at the rural-urban interface in Chad in the framework of a Swiss National Science Foundation (SNF) funded project entitled "Multiscale transmission dynamics of rabies in Africa: The urban-rural interface", in collaboration with Institut de Recherche en Elevage pour le Développement (IREDE) in N'Djamena, Chad.

The successful applicant will be registered for a PhD degree at the University of Basel. The studentships provide support for 3 years with a doctoral salary at the SNF scale. The position is available immediately, but a later starting date is possible by negotiation.

### Required qualifications are:

- An MSc degree in mathematics, statistics, or quantitative biology or epidemiology
- Strong mathematical and statistical modelling skills
- Strong programming skills in at least one programming language such as Python, R, C++, or Matlab.
- Very good English speaking and writing skills
- Working knowledge of French is an asset.
- Willingness to work for short periods in N'Djaména, Chad

Swiss TPH is an equal-opportunity employer. Applicants from backgrounds that are traditionally underrepresented in academia are encouraged to apply.

### Please submit your application online via the link provided below:

If you are interested, please submit your application with:

- Motivation letter
- CV
- Publication list
- Reference letters and diploma
- Names and contact information (email or phone) of 2-3 referees

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.

### Contact:

For further information please contact PD Dr Nakul Chitnis ([nakul.chitnis@unibas.ch](mailto:nakul.chitnis@unibas.ch)) or Prof. Fayiz Abakar ([fayizalhilou@gmail.com](mailto:fayizalhilou@gmail.com)).



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**Job Profile:**

Start Date: immediately or upon agreement

Location: Basel / later Allschwil, Switzerland

Duration: limited contract of 3 years with a possibility of extension

Percentage: 100%

Travel Required? Yes, field visits to Chad