

Post Doc Position in

'Modelling infrastructure networks and interconnectedness'

The open position is part of the *Mobiliar Lab for Natural Risks*. The goal of the Mobiliar Lab is to study and to quantify the spatio-temporal characteristics of climate risks and natural hazards and their impacts upon the Swiss society. The focus is on applied research and practical applications. The Mobiliar Lab for Natural Risks (www.mobiliarlab.unibe.ch) is part of the Oeschger Centre for Climate Change Research at the University of Bern.

We have an opening for a one year PostDoc position (starting as soon as possible or by agreement, possible prolongation).

The Post Doc will work together with other members of the Mobiliar Lab on a project focusing on infrastructure in Switzerland and possible impacts by water-related hazards. The contribution of the Post Doc will focus on analysing and modelling infrastructure networks and implications of interconnectedness and (functional, spatial) interdependencies for a better understanding of systemic vulnerability and risk.

We are looking for a highly motivated candidate who

- holds PhD in mathematics, physics, computer science, geo-informatics / -statistics
- has experience in modelling complex systems and/or infrastructure systems
- has experience in the application of graph theory
- has excellent skills in programming (Python, C++ and/or other relevant languages)
- likes to work in a trans-disciplinary research environment and to develop creative strategies,
- is interested in applied research,
- is fluent in English.

Basic knowledge in Swiss geography and basic knowledge of German would be an asset. The close collaboration with the Swiss Mobiliar Insurance company offers the possibility to transfer the research results into practice.

The gross salary is fixed according to regulation of the University of Bern and Canton Bern. The appointment will be in the Mobiliar Lab for Natural Risk at University Bern, with an initial term of one year and the expectation that progress would merit reappointment for another half year or more.

Questions regarding the position can be directed to Margreth Keiler (margreth.keiler@giub.unibe.ch). Please send **your application** (letter of motivation, CV including a publication list, names and addresses of two references, diploma and transcript) in **ONE pdf** file to Mirjam Mertin (mirjam.mertin@giub.unibe.ch). **Review of applications will start by beginning of March, 2018** and will be continued until the position is filled. **Interviews are planned in the week of March 19, 2018.**

Applications from qualified women are warmly encouraged.