

## Nat Cat Modeler Earthquake

80-100%

**CelsiusPro AG** is an Insurtech company based in Zurich specialized in industrializing index insurance solutions to mitigate the effects of adverse weather, climate change and natural catastrophes. We aim to increase resilience against NatCat and adverse weather events, combine risk management with data science, simplify, digitalize and automate the risk management process.

**The Technology Team** develops risk management solutions, modelling and analytics tools and web-based platforms for corporations, insurers, brokers, governmental agencies, industry bodies, cooperatives and agribusiness companies. We are looking to recruit an additional Nat Cat Modeller to expand our capabilities.

### You will be responsible for the following tasks:

- Natural Catastrophes (NatCat) modelling with the open-source model CLIMADA.
- Implementation of a probabilistic model with the result of a global hazard event set for earthquakes.
- Statistical modelling: Empirical models for Natural Catastrophes (tropical cyclones, earthquakes), meteorological events (drought, heavy rainfall), etc.
- Interactive exploration of local and global meteorological, vegetation and NatCat datasets
- Write server-side and, to a lesser extent, frontend code for web-based applications, develop prototypes quickly and create robust high-volume production applications.
- Analytics for index-based insurance products and schemes
- Work with key stakeholders across the company to ensure successful product releases

### You have:

- Relevant experience in the creation and implementation of probabilistic models, ideally in the context of earthquakes.
- Strong mathematical foundation with particular focus in modeling, statistics, probability, and computational science.
- Extensive experience with Python and/or R, with emphasis on data analysis.
- Experience working with large and complex datasets.
- R shiny, API development and experience with MongoDB, SQL database, Docker, GIS and large Unix servers are a plus.
- MSc degree in science or engineering.

You like clean code and good documentation, have experience in developing code as a team, and are not afraid of working with Terabytes of data. You have excellent interpersonal skills, sense of responsibility and proactivity and effective verbal and written communication in English; German is a plus.

**Candidates must have Swiss or EU citizenship or Swiss work permit.**

**We offer** a dynamic and international working environment linking climate change risks, index insurance and reinsurance. In addition, you will have the opportunity to work with leading-edge technologies for geographical data analysis and big data. CelsiusPro consists of a data-driven, motivated, and talented young team. If you are open for a new exciting challenge, please send us your complete application including your cover letter and CV by email.

Contact: [info@celsiuspro.com](mailto:info@celsiuspro.com)



**CelsiusPro AG**

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