

Research Scientist/Postdoc Position (GLOFs), 2 years, Entgeld-/Bes.Gr. E13 (Projekt Elitenetzwerk Bayern, StMWK, DELIGHT, Dr. Cook) (01.07.2025)

Department Geographie und Geowissenschaften, Erlangen, TV-L E 13, Vollzeit, Befristete Anstellung,
Bewerbungsschluss: 18.04.2025

Ihre Aufgaben

The results of this project will help inform and initialise GLOF modelling and may prove useful in model validation. Should the method be globally applicable, this would be useful for risk estimation. Global lake catalogues exist, but none has yet been produced using a consistent automated method, and these catalogues are usually static and quickly outdated; developing such a method would mark a significant advance, particularly with regards to the project's focus on more easily generating end-user products. Such an automatised remote-sensing-based method would enable much easier detection of GLOFs if lakes suddenly disappeared or drastically shrank between snapshots, which would greatly improve our understanding of this phenomenon.

The position is initially available for 2 years with the possibility to extend for a further 12-18 months, depending on start date, progress and interest. It would suit a recently graduated Masters or PhD student with relevant experience in remote sensing and image processing, as well as deep learning. Due to the relatively narrow focus of this position, however, it is not envisaged that this will lead directly to a PhD if the applicant does not already possess one.

The successful candidate would be based at the Institute for Geography at FAU Erlangen-Nürnberg as part of the existing well-established glaciological research group at the institute, with particular strengths in remote sensing, ice-flow modelling, and the application of deep learning in a glaciological context. The supervisor will be Dr Samuel Cook along with another PI in the department or the CryoSCOPE project, to be confirmed based on the profile and interests of the candidate. The salary will depend on the experience of the candidate. Ideally, the candidate will be available to start immediately, but this is flexible.

FAU is the top university for glaciological research in Germany and is split across the 18th-century university town of Erlangen and the historically important city of Nürnberg in the state of Bavaria. The wider region is a major climbing destination, with several major cultural attractions in easy reach. The Alps are only a couple of hours away.

Stellenzusatz

Befristetes Forschungsvorhaben

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