

**NTNU - kunnskap for en bedre verden**

Ved NTNU i Trondheim er den teknologiske kunnskapen i Norge samlet. I tillegg til teknologi og naturvitenskap har vi et rikt fagtilbud i samfunnsvitenskap, humanistiske fag, realfag, medisin, lærerutdanning, arkitektur og kunsthøgskolen. Samarbeid på tvers av faggrensene gjør oss i stand til å tenke tanker ingen har tenkt før, og skape løsninger som forandrer hverdagen.

**Fakultet for samfunnsvitenskap og teknologiledelse  
Geografisk institutt**

## Postdoctoral fellow in spatiotemporal modelling at the Department of Geography

A temporary position as postdoctoral fellow is available at the Department of Geography. The position is a 2 year post in modelling climate change induced vulnerability, hazard and exposure across spatiotemporal scales. The position is a fixed-term position with the primary goal of qualifying for work in professional academic chair positions.

Currently, the Department employs 9 Professors, 10 Associate Professors and 12 PhD candidates. Staff at the Department are organized in four interconnected groups whose research covers a broad range of fields across human and physical geography: 1) Climate, vulnerability, adaptation and mitigation, 2) Environment, resources and management, 3) Mobility, transnationalism and inequality, 4) Innovation in industry and society. The postdoctoral fellow will join the research group on Climate, vulnerability, adaptation and mitigation.

**Job description**

Future oriented climate change research needs to be geared towards assessing the impact that climate change will have on communities, local and beyond. Scenarios for demographic, social and economic changes are needed because climate change induced extreme events will take place in a very different society than the society we know at present. The person employed will undertake spatiotemporal modelling of climate induced vulnerability, hazard and exposure to create a base-line from where she/he can construct scenarios and/or predictions. These scenarios/predictions will be incorporated in geovisualization tools aiming to concretize possible pathways towards more climate-resilient societies. Risk-based modelling assesses the risk of climate change by modelling three main risk components, i.e. vulnerability, hazard and exposure. All three risk-components vary temporally and spatially. As transformations in economic, social, technological, and political decisions and actions can enable climate-resilient pathways, it is important to understand this spatiotemporal variation.

The Department of Geography runs and is involved in several externally funded projects that aim at conducting research in the field of climate change adaptation, most notably the project "Climate change and natural hazards: The geography of community resilience in Norway" (ClimRes, <http://www.climres.no/>). The research group now wants to strengthen the competence in modelling of large spatiotemporal datasets ("big data"). We therefore look for a postdoc candidate who:

- Can demonstrate elaborated skills in spatiotemporal modelling
- Is able to manage, analyse, and visualize large complex datasets
- Has advanced skills in one or more of the following: GIS, spatial statistics or physical geographic methods.
- Experience from working with stakeholders. This is considered an advantage but not a prerequisite.
- Is motivated to join an international research team in order to undertake transdisciplinary research.

Has a good command in English. This is a prerequisite, whereas a good command in Norwegian or other Scandinavian language is an advantage.

**Qualifications**

A Norwegian PhD is required in a relevant field or an equivalent foreign PhD approved as equivalent to a Norwegian PhD or competence to an equivalent level documented with scientific work of the same nature.

Employment will be activated in accordance to existing regulations of 31.01.2006.

Personal qualifications will be ascribed high importance.

**Application**

Applications must include:

- A publication list.
- Copies of relevant publications (no more than five).
- A project proposal.
- A CV with information on education, previous research experience, together with authorized documentation of certificates and study records. Fluent English skills are required (min. IELTS AC. score 7.0 or equivalent for applicants with latest education from outside Norway where English is not the primary language).

The application must be accompanied by a project proposal. In the proposal, the applicant should place his/her research plan in the context of relevant literature, and propose and argue for relevant research questions. Applicants should briefly state their motivation for applying, as well as outlining their motivation for, alternatively experience from, working in a research team. The project proposal should be 4-5 pages long. The applicant needs to provide a short statement on her/his contribution in co-authored publications. Personal qualifications will be ascribed high importance.

### **Salary and Working Conditions**

The Postdoctoral Fellow is paid according to salary scale 24 level 57 in the national salary scheme, gross NOK 40 208,40 per month, of which 2 % is deducted for the State Pension Scheme.

The appointment is to be made in accordance with the regulations in force concerning State Employees and Civil Servants. The employee is expected to accept possible changes in work tasks. Primary residency in Trondheim is a prerequisite.

It is a major political objective to achieve a balance of age and gender in the national labour force and to recruit people with an immigrant background. Immigrants are encouraged to apply for all positions.

Information about the applicants may be open to public inspection as provided by the Freedom of Information Act.

Further information about the position is available by contacting Jan Ketil Rød (phone 73592772, e-mail [jan.rod@svt.ntnu.no](mailto:jan.rod@svt.ntnu.no)) or Ivar Berthling (phone 900 66 509 e-mail [ivar.berthling@svt.ntnu.no](mailto:ivar.berthling@svt.ntnu.no)).

An application including attachments should be sent electronically through this page ([jobbnorge.no](http://jobbnorge.no)). Attachments may also be sent to: NTNU, Faculty of Social Science and Technology Management, NO-7491 Trondheim, Norway. Please mark the application SVT-1225. Application deadline: **04.05.15**

Jobbnorge-ID: 111928, Søknadsfrist: Avsluttet