

**Jobbnorge ID:** 258871  
**Deadline:** 7/1/2024  
**Website:** <http://www.ntnu.no>  
**Scope:** Fulltime  
**Duration:** Temporary

The Department of Geoscience and Petroleum has a vacancy for a

## PhD position in Geology/Geophysics - SO IV-31/24

### This is NTNU

NTNU is a broad-based university with a technical-scientific profile and a focus in professional education. The university is located in three cities with headquarters in Trondheim.

At NTNU, 9,000 employees and 43,000 students work to create knowledge for a better world.

You will find more information about working at NTNU and the application process [here](#).

Video: <https://youtu.be/Xt-yHCN5QS0>

### About the job

For a position as a PhD Candidate, the goal is a completed doctoral education up to an obtained doctoral degree.

The NTNU Department of Geoscience and Petroleum (IGP) is looking for a highly motivated, independent geo-scientist for a full-time three-year PhD student position on the topic ' **DEForming CONTinental margins (DEFCON): Post-Caledonides to breakup crustal evolution of the NE Atlantic - insights from deformable plate reconstructions** '.

These last two decades, our knowledge about extensional processes and rifting has evolved significantly, allowing improved assessment of frontier regions. However, uncertainties remain, notably regarding the crustal evolution through time. Although of primary importance for evaluating the deformation history, the crustal tectonic history remains poorly constrained for some specific time periods. On the Norwegian Continental Shelf, this is typically the case for the time period covering the post-orogenic collapse (mid-Devonian-Carboniferous), early rifting (Permo-Triassic) to crustal necking (Jurassic-early Cretaceous). New ways to model the temporal and spatial evolution of crustal thinning and basin formation across rift systems are needed.

The goal of this project is to build fragmented tectonic plate models for the margins of the northeastern North Atlantic and use them in deformable plate reconstructions. These models will better capture inherited structures and internal deformation - within and along each rift, margin segment and microcontinent - and will be used to generate more realistic crustal reconstructions that can be compared against present-day constraints.

The PhD candidate will have to work with seismic reflection interpretation, potential field modelling incl. gravity inversion, and plate reconstructions.

The total duration of the Ph.D. position is three years, ideally starting by autumn/end of 2024. The PhD candidate will be based in the Geology research group at the Department of Geoscience and Petroleum (IGP), Norwegian University of Science and Technology (NTNU) based in Trondheim, Norway. Possible shorter scientific stays (1-4 weeks) at the Memorial University (St John's Newfoundland, Canada) will be planned.

Your immediate leader is Head of department.

### Duties of the position

- literature review
- seismic reflection interpretation
- potential field modeling, gravity inversion
- plate tectonic reconstructions
- geodynamic evolution
- thesis & publications writing
- scientific communications (oral & poster presentations)

### Required selection criteria

- The position requires a strong background and interest in Geology, Tectonics, Structural Geology, Seismic Interpretation (Petrel), Geophysical methods.
- Your education must correspond to a five-year Norwegian degree program, where 120 credits are obtained at master's level
- You must have a strong academic background from your previous studies and an average grade from the master's degree program, or equivalent education, which is equal to B or better compared with NTNU's grading scale. If you do not have letter grades from previous studies, you must have an equally good academic basis. If you have a weaker grade background, you may be assessed if you can document that you are particularly suitable for a PhD education.
- You must meet the requirements for admission to the faculty's doctoral program (<https://www.ntnu.edu/iv/doctoral-programme>)

The appointment is to be made in accordance with [Regulations on terms of employment for positions such as postdoctoral fellow, PhD candidate, research assistant and specialist candidate](#) and [Regulations concerning the degrees of Philosophiae Doctor \(PhD\) and Philosophiae Doctor \(PhD\) in artistic research national guidelines for appointment as PhD, post doctor and research assistant](#).

## Preferred selection criteria

- We seek a candidate with a background in geology but with skills in seismic interpretation and/or geophysical modeling, alternatively a geophysicist with a strong geology background.
- Experience with extensional tectonic environments, such as rifts and rifted margins will be an advantage.
- Experience with interpretation of seismic reflection data, using modern seismic interpretation software such as Petrel, will be desired.
- Experience with mapping and potential field modelling tools (such as Geosoft GMSYS) will be an advantage.
- Experience with plate reconstruction software (such as GPlates) will be an advantage.
- Good written and oral English language skills are required.
- Good communication and collaboration skills are required.

## Personal characteristics

- Willingness to learn new fields in a multidisciplinary research environment.
- Problem solver, with ability to use existing knowledge in new ways.
- Excellent communication skills.

Emphasis will be placed on personal and interpersonal qualities.

## We offer

- exciting and stimulating tasks in a strong international academic environment
- an open and [inclusive work environment](#) with dedicated colleagues
- favourable terms in the [Norwegian Public Service Pension Fund](#)
- [employee benefits](#)

## Salary and conditions

As a PhD candidate (code 1017) you are normally paid from gross NOK 532 200 per annum before tax, depending on qualifications and seniority. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund.

The period of employment is 3 years.

Appointment to a PhD position requires that you are admitted to the PhD programme in engineering (<https://www.ntnu.edu/iv/doctoral-programme>) within three months of employment, and that you participate in an organized PhD programme during the employment period.

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The engagement is to be made in accordance with the regulations in force concerning [State Employees and Civil Servants](#), and the acts relating to Control of the Export of Strategic Goods, Services and Technology. Candidates who by assessment of the application and attachment are seen to conflict with the criteria in the latter law will be prohibited from recruitment to NTNU. After the appointment you must assume that there may be changes in the area of work.

It is a prerequisite you can be present at and accessible to the institution daily.

## About the application

The application and supporting documentation to be used as the basis for the assessment must be in English.

Publications and other scientific work must be attached to the application. Please note that your application will be considered based solely on information submitted by the application deadline. You must therefore ensure that your application clearly demonstrates how your skills and experience fulfil the criteria specified above.

The application must include:

- CV and certificates.
- Cover/motivation letter describing why you are interested in the project and what makes you suitable for the project.
- Transcripts and diplomas for bachelor's and master's degrees. If you have not completed the master's degree, you must submit a confirmation that the master's thesis has been submitted and/or is under completion.
- A copy of the master's thesis (or draft of the thesis if not submitted yet). Documentation of a completed master's degree must be presented before taking up the position - a minimum grade of B will be required.
- Name and contact information of two or more referees. One of these should be the main advisor for the master's or equivalent thesis.
- If you have publications or other relevant research work.
- Description and documentation of your language skills.

If all, or parts, of your education has been taken abroad, we also ask you to attach documentation of the scope and quality of your entire education, both bachelor's and master's education, in addition to other higher education. Description of the documentation required can be found [here](#). If you already have a statement from NOKUT, please attach this as well.

We will take joint work into account. If it is difficult to identify your efforts in the joint work, you must enclose a short description of your participation.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal and interpersonal qualities. Motivation, ambitions, and potential will also count in the assessment of the candidates.

NTNU is committed to following evaluation criteria for research quality according to [The San Francisco Declaration on Research Assessment - DORA](#).

## General information

[Working at NTNU](#)

NTNU believes that inclusion and diversity is our strength. We want to recruit people with different competencies, educational backgrounds, life experiences and perspectives to contribute to solving our social responsibilities within education and research. We will facilitate for our employees' needs.

NTNU is working actively to increase the number of women employed in scientific positions and has a number of resources to [promote equality](#).

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**The city of Trondheim** is a modern European city with a rich cultural scene. Trondheim is the innovation capital of Norway with a population of 200,000. The Norwegian welfare state, including healthcare, schools, kindergartens and overall equality, is probably the best of its kind in the world. Professional subsidized day-care for children is easily available. Furthermore, Trondheim offers great opportunities for education (including international schools) and possibilities to enjoy nature, culture and family life and has low crime rates and clean air quality.

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As an employee at NTNU, you must at all times adhere to the changes that the development in the subject entails and the organizational changes that are adopted.

A public list of applicants with name, age, job title and municipality of residence is prepared after the application deadline. If you want to reserve yourself from entry on the public applicant list, this must be justified. Assessment will be made in accordance with [current legislation](#). You will be notified if the reservation is not accepted.

If you have any questions about the position, please contact Professor Gwenn Peron-Pinvidic, e-mail [gwenn.peron-pinvidic@ntnu.no](mailto:gwenn.peron-pinvidic@ntnu.no). If you have any questions about the recruitment process, please contact HR consultant Anne-Lise Brekken, e-mail: [anne.lise.brekken@ntnu.no](mailto:anne.lise.brekken@ntnu.no).

If you think this looks interesting and in line with your qualifications, please submit your application electronically via [jobbno.no](http://jobbno.no) with your CV, diplomas and certificates attached. Applications submitted elsewhere will not be considered. Upon request, you must be able to obtain certified copies of your documentation.

**Application deadline: 01.07.2024.**

## NTNU - knowledge for a better world

### NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

### Department of Geoscience and Petroleum

We conduct teaching and research related to management of Earth's geological resources. Norway's rich resources of wind, water, oil, gas and minerals have been and are essential to the country's prosperity, and will continue to be in the future. The Department plays a key role in the development of technology and the education of graduates who enable value creation based on our natural resources. [The Department of Geoscience and Petroleum](#) is one of eight departments in the [Faculty of Engineering](#).

## Additional information

### Place of service:

S. P. Andersens vei 15A 7491 Trondheim (Trondheim Municipality)