

Jobbnorge ID: 204141
Deadline: 5/15/2021
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Fixed Term

The Department of Physics has a vacancy for a

Postdoc in the area of materials characterization

This is NTNU

At NTNU, creating knowledge for a better world is the vision that unites our 7 400 employees and 42 000 students.

We are looking for dedicated employees to join us.

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

Video: <https://www.youtube.com/watch?v=clgKd1SwGLI>

About the position

We have a vacancy for a postdoc working in the area of materials characterization in the Group of soft and complex matter science at the Department of Physics, Faculty of Natural Sciences, Norwegian University of Science and Technology - NTNU in Trondheim, Norway.

The position is financed by a Czech-Norway collaboration (Norway Grants) via the KAPPA Programme: "Nanoremediation of contaminated soils: Technology implementation with respect to ecotoxicological aspects". The activities are experimental and involve materials characterization including use of surface science techniques. The measurement specimens will be contaminated soil samples collected by our partners in the Czech Republic.

The workplace of the postdoc will be in the Soft and Complex Matter Lab (<http://www.softcomlab.com>). Experimental methods that will be utilized in the project are mainly X-ray photoelectron spectroscopy (XPS) and microscopy (atomic force - AFM, electron (SEM, TEM)). Custom made experiments, such as special purpose sample cells will be designed and built with the help of the laboratory's technical staff, the NTNU mechanical workshop.

Starting date for employment in the position is expected to be after September 15th, 2021.

You will report to Head of Department of Physics Professor Erik Wahlstrøm. Professor Steinar Raaen will be the main scientific supervisor of the postdoc.

Duties of the position

- Perform experimental work related to contaminated soils, using experimental approaches such as those described above.
- Aid PhD students or MSc students working in the Soft and Complex Matter Lab at NTNU working on related topics.
- Aid in writing and refining scientific publications.

Required selection criteria

A postdoctoral research fellowship is a qualification position in which the main objective is qualification for work in academic positions. You must have completed a Norwegian doctoral degree in experimental physics, chemistry, materials science or corresponding foreign doctoral degree recognized as equivalent to a Norwegian doctoral degree is required.

If, for any reason, you have taken a career break or have had an atypical career and wish to disclose this in your application, the selection committee will take this into account, recognizing that the quantity of your research may be reduced as a result.

The appointment is to be made in accordance with the regulations in force concerning [State Employees and Civil Servants and national guidelines for appointment as PhD, post doctor and research assistant](#).

- The position requires strong experimental skills
- The position requires experience in working with ultra-high vacuum and photo electron spectroscopy (XPS and UPS).

Preferred selection criteria

- It will be considered an advantage if the applicant has data-analysis skills in e.g. Matlab.
- Experience with experimental training and teaching will be taken into account in the evaluation process
- Good written and oral English.

Personal characteristics

- Creative, with a strong ability to work goal-oriented and independently.
- Good skills to deliver oral and written presentations of research results.
- He/she should also enjoy interdisciplinary research and take keen interest in working in teams.

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

The employment period is 2 years.

Postdoctoral candidates are placed in code 1352, and are normally remunerated at gross from NOK 545 300 per annum before tax. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund.

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 follow the application. Please note that applications are only evaluated based on the information available on the application deadline. You should ensure that your application shows clearly how your skills and experience meet the criteria which are set out above.

The application must include:

- An application letter that shows clearly how your skills and experience meet the specific criteria and general research approach which are set out above, as well as your motivation.
- CV, certificates, and diplomas
- Academic works - published or unpublished - that you would like to be considered in the assessment
- Name and address of three referees

Joint works will be considered. If it is difficult to identify your contribution to joint works, you must attach a brief description of your participation.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal suitability.

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](#)

A good work environment is characterized by diversity. We encourage qualified candidates to apply, regardless of their gender, functional capacity or cultural background.

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.

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.

In accordance with The Public Information Act (Offentleglova), your name, age, position and municipality may be made public even if you have requested not to have your name entered on the list of applicants.

If you have any questions about the position, please contact Professor Steinar Raaen, email sraaen@ntnu.no. If you have any questions about the recruitment process, please contact Head of Department of Physics, Professor Erik Wahlstrøm, e-mail: erik.wahlstrom@ntnu.no.

Please submit your application electronically via jobb norge.no with your CV, diplomas and certificates. Applications submitted elsewhere will not

be considered. Diploma Supplement is required to attach for European Master Diplomas outside Norway. Chinese applicants are required to provide confirmation of Master Diploma from [China Credentials Verification \(CHSI\)](#).

If you are invited for interview you must include certified copies of transcripts and reference letters. Please refer to the application number 47/21 when applying.

Application deadline: 15.05.21

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

Department of Physics

Our research and teaching are both experimental and theoretical, covering a wide range of disciplines. Our activities contribute to development of new medical technology and to finding solutions for the next generation's communication technology, energy utilization and development of materials. [The Department of Physics](#) is one of eight departments in the [Faculty of Natural Sciences](#).

Additional information

Place of service:

Department of physics 7491 Trondheim (Trondheim Municipality)