

Jobbnorge ID: 230167
Deadline: 8/30/2022
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Permanent

The Department of Civil and Environmental Engineering in the Faculty of Engineering, at the Norwegian University of Science and Technology (NTNU) has a vacancy for

Associate Professor in Hydraulic Structures and Hydraulic Engineering

This is NTNU

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

At NTNU, 9,000 employees and 42,000 students work to create knowledge for a better world.

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

About the position

The Department of Civil and Environmental Engineering in the Faculty of Engineering, at the Norwegian University of Science and Technology (NTNU) has a vacancy for an associate professorship in the Hydraulic Engineering research group.

The selected candidate will be responsible for teaching within topics covered by the group and for initiating and carrying out research in accordance with NTNU's and the research group's core activities and strategy. The candidate will be evaluated based on his/her core competencies in the field of hydraulic structures and hydraulic engineering.

The Department of Civil and Environmental Engineering runs one of Europe's largest hydraulic laboratories, the NTNU Hydrotechnical Laboratory, where physical hydraulic experiments related to watercourses, sedimentation problems, hydraulic and hydropower structures are carried out as a part of R&D projects and education. The research group is a part of the research center HydroCen (<https://www.ntnu.edu/hydrocen>) established in collaboration with the hydropower industry in Norway, and is a central actor in implementation of the faculty's research strategy in the field of sustainable and renewable energy, with focus on hydropower and reliable and effective hydraulic structures. The Hydraulic Engineering research group aims at being leading in engineering education and research within these topics to support the society and industry with front end knowledge to meet existing and future engineering challenges.

The civil engineering sector is undergoing rapid transformations challenged by the green shift. Enabling technologies within digitalization, monitoring and automation open new possibilities. NTNU focus on research on digitalization and sustainable solutions, both as separate fields and as integrated parts of established and new professional disciplines. The position will be associated with a major research Centre Green2050 by the Department of Civil and Environmental Engineering towards the green shift in built environment.

The position will be responsible for teaching and research in the field of hydraulics, hydraulic structures and hydropower engineering. The department offers a national MSc program in Civil and Environmental Engineering and an international master program in Hydropower Development, and the candidate should be able to take a role in teaching activities in both these programs. Norwegian or Scandinavian language skills are required for teaching in the national MSc program.

You will report to the Head of Department

Duties of the position

The associate professor is expected to play a leading role in the research and education in cooperation with existing staff at the department.

- The successful candidate is expected to initialize and lead research within the field of hydropower structures, hydraulic engineering and watercourse engineering, including experimental research in the hydraulic lab at NTNU as well as field work
- The candidate is expected to take an active role in the education of students including supervision, teaching, and course development for Master and PhD students, as well as for continuing education courses within the field
- The candidate is expected to obtain and lead research projects from National and European Union (EU) funding programs

Required qualifications

- International research profile with relevant publication record
- Relevant background in hydraulic engineering and hydropower structures engineering

- Experience in initiating and successfully executing experimental research in hydraulic laboratories
- Demonstrated interactions with industrial partners. Emphasis will be placed on practical experience and network within the hydropower industry
- Ability to initiate an individual and creative research program
- Experience in attracting and leading research projects
- Excellent oral and written English skill

You must have the qualifications required for the position of associate professor in the field of hydraulic structure/hydraulic engineering, as outlined in the [regulations concerning appointment and promotion to teaching and research posts](#).

- Your PhD, or academic work of the same scope and quality, must be within the field of hydraulic engineering with emphasis on hydraulic/hydropower structures
- Your experience must be primarily in the field of hydraulic engineering with emphasis on hydraulic/hydropower structures
- Your research must be documented and of high international quality
- Research activity and output must demonstrate the ability to take up new research issues

The candidate is expected to work with critical national objects and infrastructure in Norway. Candidates with the potential of not fulfilling requirement for security clearance, access clearance and authorization as described in the Act Relating to National Security, cannot be considered for the position.

You must document relevant basic competence in teaching and supervision at a university/higher education-level, as referenced in the Norwegian national [Regulations](#). If this cannot be documented, you will be required to complete an approved course in university pedagogy within two years of commencement. NTNU offers qualifying courses.

New employees who do not speak a Scandinavian language by appointment is required, within three years, to demonstrate skills in Norwegian or another Scandinavian language equivalent to level three of the [course for Norwegian for speakers of other languages at the Department of Language and Literature at NTNU](#).

Preferred qualifications

- Practical experience and network within the Norwegian/Scandinavian hydropower industry
- Ability and documented experience in initiating and leading research in the field hydropower structures and hydraulic engineering, and in obtaining external funding
- Teaching and supervision experience from higher education
- Oral and written skills in a Scandinavian language. Norwegian or Scandinavian language skills are required for teaching in the national Civil and Environmental Engineering MSc program

Personal qualities

- Structured, targeted and solution-oriented, with good strategic and analytical skills and openness to variety of assignments
- Relays information with clarity and ease, both orally and written
- Goal oriented, with ability to seek new opportunities at work, initiate activities, and projects by working independently
- A team player with excellent communication and interpersonal skills

We offer

- Exciting and challenging 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

In a position as Associate Professor (code 1011) you will normally be remunerated from gross 550 000 NOK - 750 000 NOK per year, depending on qualifications and seniority. 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 that you are able to be present and accessible at the institution daily.

Application Process

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

Video: <https://youtu.be/bwfnPj8HxHw>

About the application

Your application and supporting documentation must be in English.

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.

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 application must be well structured and organized.

Your application must include:

- CV, diplomas, and certificates
- A teaching portfolio, in which your teaching competence is compiled and presented systematically, (See guidelines for applicants: [Documentation of teaching qualifications in applications and appointments to academic positions at NTNU](#))
- Academic works - published or unpublished - that you wish to be considered during assessment of your application (up to 10 items)
- A description of the scientific/artistic works you consider most relevant, which you particularly wish to be factored into the assessment
- A list of your previous works, with details on where they have been published
- A research plan
- Details of projects for which you have served as project manager, including information on financing, duration, and scope
- Information about experimental research in hydraulic laboratories and/or in the field.
- Names and contact information for three relevant referees

Joint work will also be considered. If it is difficult to identify your specific input to a joint project, you must include evidence of your contributions.

In the assessment of the best-qualified applicant, we will emphasize education, experience and personal suitability as well as your motivation for the position. You will be expected to deliver high-quality teaching at undergraduate and postgraduate levels, and undertake supervision of Masters and Doctoral candidates. Evaluation of these skills will be based on documented experience and relevant teaching qualifications. Applicants with teaching experience at university level are preferred. Quality and breadth of the teaching qualifications will be evaluated.

NTNU is committed to following evaluation criteria for research quality according to [The San Francisco Declaration on Research Assessment - DORA](#). This means that we pay special attention to the quality and professional breadth of these works. We also consider experience from research management and participation in research projects. We place great emphasis on your scientific work from the last five years.

Your application will be considered by an expert committee and the most suitable applicants will be invited to interview and to deliver a lecture.

General information

A good working environment is characterized by diversity. We encourage qualified candidates to apply, regardless of their gender, functional capacity or cultural background. NTNU wishes to increase the proportion of women in its academic positions, and women are therefore encouraged to apply.

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 continually maintain and improve your professional development and be flexible regarding any organizational changes.

Under the Freedom of 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 regarding the position, please contact Fjola G. Sigtryggsdottir, tel. +47 73598388, e-mail fjola.g.sigtryggsdottir@ntnu.no If you have questions regarding the recruitment process, please contact Tone Måsøval Arntzen email tone.m.arntzen@ntnu.no

Please submit your application and supporting documentation via jobbno.no. If you are invited for interview, you must bring certified copies of certificates and diplomas. Mark the application with reference number: IV 152/22

Application deadline: 30.08.2022

NTNU - knowledge for a better world

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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 Civil and Environmental Engineering

We conduct research and teaching in civil and transportation engineering, technical planning, structural engineering, water and wastewater engineering and hydraulic engineering. Graduates from our programmes become employees - in both the public and private sectors - with a sustainability mindset combined with competitive knowledge and skills. [The Department of Civil and Environmental Engineering](#) is one of eight departments in the [Faculty of Engineering](#).

Additional information

Place of service:

Civil and Environmental Engineering 7491 Trondheim (Trondheim Municipality)