

Jobbnorge ID: 280366
Deadline: 5/30/2025
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Permanent

Associate Professor in wastewater treatment

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 44,000 students work to create knowledge for a better world.

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

About the job

The Department of Civil and Environmental Engineering invites applications for a vacant position in wastewater treatment and management. The position is affiliated with the department's Water and Wastewater Group. We are seeking an innovative, creative, and responsible candidate to lead teaching and research activities in wastewater treatment and management. Expertise in knowledge modeling and resource recovery is highly desirable.

Your immediate leader is the head of the department.

Duties of the position

- Teaching and supervision of students at bachelor-, master-, and PhD levels
- Develop an original and relevant research program in the monitoring, analysis, control, modelling and management of wastewater, which could be built around two or more of the following applications: small- and large-scale wastewater treatment, resources recovery, interaction between sewers and wastewater treatment plants
- Contribute to the overall research goals of the water and wastewater group through larger proposals and strategic project development
- Strengthen the national and international professional research network within wastewater and closely related fields
- Actively contributes to the development and provision of high-quality education
- The candidate is also expected to be involved in the university's research community
- The candidate must contribute to further developing courses
- Performing administrative tasks related to educational, research and innovation activities

Required qualifications

Associate professor:

You must have the qualifications required for the position of Associate Professor in the field of wastewater treatment, as outlined in the [Regulations for the universities and Colleges Act](#)

- Your PhD, or comparable academic work, must be within the field of water engineering, chemical engineering, or the same scope, and with research focus on wastewater treatment and management
- If you can document that the PhD thesis has been submitted, your application can be assessed even if you have not yet defended your dissertation. Documentation of the obtained doctoral degree must be presented before you can take up the position
- The applicant must document relevant educational theory and practice for higher education
- Good written and oral English language skills

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

- Research and development work relevant to the position. Scientific production from the last six years will be emphasized
- Ability to obtain funding for research, documented by established projects
- Excellent knowledge of and experience in application and development of digital solutions for research and teaching
- Ability to integrate theoretical knowledge with practical applications while demonstrating creativity and innovation
- Flexibility and the ability to adapt teaching and research to the evolving needs of NTNU and the department, with a strong emphasis on interdisciplinary collaboration
- Strong pedagogical skills and teaching experience, with the ability to motivate, engage, and inspire both students and colleagues
- Teaching qualifications will be evaluated in conjunction with interviews

Personal qualities

- Excellent cooperation and communication skills
- Highly motivated for a career in research and education
- Highly interested in working in multidisciplinary teams

Emphasis will be placed on personal and interpersonal qualities.

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](#)

Application Process

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

Video: <https://youtu.be/bwfNPj8HxHw>

Salary and conditions

As a Associate Professor (code 1011) you are normally paid from gross NOK 745 000 - NOK 850 000 per annum before tax, depending on qualifications and seniority. As required by law, 2% of this salary will be deducted and paid into 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 on a daily basis.

About the application

Your application and supporting documentation must be in English.

Publications and other scientific work must follow 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.

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.

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 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
- Names and contact information for three relevant referees

You are encouraged to use the Universities Norway's [NOR-CAM toolbox](#) as a guide for documentation of your competence.

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 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. Our assessment of the pedagogical skills will be based on documented pedagogical material, forms of presentation in your academic works, teaching experience, PhD, and Masters

supervision, and any other relevant pedagogical background. Both quality and scope will be taken into consideration, and an open scientific practice will be recognized.

NTNU is obliged by the evaluation criteria for research quality in accordance with [The San Fransisco Declaration on Research Assessment - DORA](#) and The obligations in the [Coalition for Advancing Research Assessment \(CoARA\)](#) on responsible assessment of research and recognition of a wider range of academic contributions to science and society. This means that we will pay particular attention to the quality and academic range demonstrated by your scientific work to date. We will also pay attention to research leadership and participation in research projects. Your scientific work from the last five years will be given the most weight.

Your application will be considered by an expert committee. Candidates of interest will be invited to an interview, and to deliver a trial teaching session.

General information

NTNU believes that inclusion and diversity is a strength. We want our faculty and staff to reflect Norway's culturally diverse population and we continuously seek to hire the best minds. This enables NTNU to increase productivity and innovation, improve decision making processes, raise employee satisfaction, compete academically with global top-ranking institutions and carry out our social responsibilities within education and research. NTNU emphasizes accessibility and encourages qualified candidates to apply regardless of gender identity, ability status, periods of unemployment or ethnic and cultural background.

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

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.

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.

For the sake of transparency, candidates will be given the expert evaluation of their own and other candidates. As an applicant you are considered part of the process and is stipulated to rules of confidentiality.

If you have any questions regarding the position, please contact Tone Muthanna, tlf. +47 95186817, e-mail tone.muthanna@ntnu.no

If you have questions regarding the recruitment process, please contact Tone Måsøval Arntzen, e-mail tone.m.arntzen@ntnu.no

If you think this looks interesting and in line with your qualifications, please submit your application electronically via 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: 30.05.2025

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

Contact person:

Tone Merethe Muthanna, Professor

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Place of service:

Høgskoleringen 7 A 7491 Trondheim (Trondheim Municipality)