

Jobbnorge ID: 298683
Deadline: 8/17/2026
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Permanent

We are looking for an

Associate Professor/Professor in physical metallurgy (casting and solidification)

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>

Om stillingen

At the Norwegian University of Science and Technology (NTNU) we have an available position for an Associate or Full Professor within the field of physical metallurgy. We are looking for an experimentalist specialized in casting and solidification of metals, who demonstrates in-depth knowledge and a strong track record in the use of advanced material characterization techniques within light- and electron-optical microscopy.

Administratively, the position is linked to the Department of Materials Science and Engineering (IMA) at the Faculty of Natural Sciences (NV) at NTNU. The department includes the areas of functional materials and materials chemistry, electrochemical technologies and corrosion, physical metallurgy, and process metallurgy, with an emphasis on light metals, ferroalloys, and silicon. The position will be associated with the group of physical metallurgy, which currently consists of three professors and one associate professor. The group has a strong national and international network, and is currently involved in several large research centers (SFI-PhysMet, SFI-FAST and FME-Solar).

Within this group, we wish to strengthen our research activities related to the areas of casting and solidification, metallography and electron-optical instruments, atom probe tomography, microstructure and texture characterization, characterization of mechanical properties, multi-scale modeling, joining, and forming of metals, with a merited and motivated candidate. Research and teaching in physical metallurgy are mainly related to light metals, steel, and silicon, with a historical emphasis on light metals. We provide education at all levels, from undergraduate studies in materials engineering to supervision of MSc students and PhD candidates, and related advanced courses.

Your immediate leader is the head of department.

Duties of the position

- You will participate in the department's R&D activities and take initiative in developing the research area of casting and solidification.
- You will contribute to generating external research funding.
- You will contribute to the development of the study programs at the department.
- You will contribute to the department's teaching activities at all levels.
- You will be responsible for participating with the rest of the scientific staff in administrative tasks, including laboratory management, especially related to research and teaching.

Required qualifications

For both Associated and Full Professor:

You must have the following qualifications required for the position:

- Doctoral degree in metallurgy or another relevant scientific field or competence at an equivalent level documented by scientific work of the same scope and quality.
- Strong track record in experimental casting and solidification of metals
- Demonstrate knowledge and in-depth use of characterization techniques like classic metallography, SEM, EDS, and EBSD.
- Educational competence documented in a teaching portfolio
- Good communication skills and fluent in English, both oral and written

Additional requirements for full professor must be documented:

- Significant contributions to research at the highest level, in accordance with international or national standards in the field
- Quality development in own teaching and supervision over time and a high degree of reflection on own practice documented in a teaching portfolio
- Broad experience with supervision, preferably at master's/PhD level
- Initiate, lead and/or participate in the development of educational quality in the academic communities
- Competence in knowledge in use (innovation, dissemination and interaction with society) and/or
- Academic leadership and elected posts/appointed roles.
- An established scientific network within relevant scientific communities demonstrated by commissions of trust, leadership and society participation.

For both of the categories:

You must document relevant basic competence in teaching and supervision at a university/higher education-level, as referenced in the [NTNUs guidelines for academic positions](#). 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 B2 of the [course for Norwegian for speakers of other languages](#) at the Department of Language and Literature at NTNU.

Preferred qualifications

- Experience from industry or industrial research collaboration
- Knowledge and network in the Norwegian metal industry
- Scandinavian speaking
- Demonstrate experience with Integrated Computational Materials Engineering approach that integrates computational modeling, experimental characterization, and data analysis

Personal qualities

- Motivated and passionate about physical metallurgy
- You are an outgoing person with a network in relevant professional environments and industry
- Able to build long-term collaborations and foster relationships with colleagues both at the department level and within the international scientific community
- You are an initiative-taking person and want to revitalize the field
- You thrive with periods of high work pace and are able to meet tight deadlines for proposals and funding applications amongst regular teaching and departmental duties.
- You have a passion for educating materials scientists for the future

Emphasis will be placed on personal and interpersonal qualities.

We offer

- Exciting and challenging tasks in a dynamic and international academic environment
- An open and inclusive working environment, with enthusiastic 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 Associate Professor / Professor (code 1011 /1013) you are normally paid from gross xxx - xxx 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.

For the necessary professional and social interaction, it is a prerequisite that you are physically present and available to the institution on a daily basis.

About the application

Your application and supporting documentation must be in English.

The attachments (including a description of your scientific work) must accompany the application as these documents form the basis of the application assessment. The documents must be in Norwegian/a Scandinavian language or English.

Please note: the application will only be assessed on the basis of the information we have received by the application deadline. Therefore, make sure that your application clearly shows how your skills and experience meet the criteria described above. The application and all attachments must be sent electronically via Jobbnorge.no. If you are invited to an interview, you must bring certified copies of certificates and diplomas upon request.

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 educational competence](#))
- 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 works you consider most relevant, which you particularly wish to be factored into the assessment
- A complete publication list
- 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

It is important that you both document and reflect on your competence. You are encouraged to use the [NTNUs competence matrix](#) 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 Francisco 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

Diversity is a strength, and at NTNU we aim to be an employer that reflects the diversity in society and that makes use of the potential of the population's collective skills. Our vision is [Knowledge for a better world](#) and [our values are creative, critical, constructive and respectful](#). We believe that an organization that is equal, diverse, and gender-balanced is essential for us to achieve our goals.

We strive to attract employees with different skills, life experiences and perspectives to contribute to even better problem solving of our societal mission in research and education.

If you think this position is relevant and interesting, we encourage you to apply, regardless of gender, functional ability, and cultural background, or whether you have been out of work for a period of time.

At NTNU we want to increase the proportion of women in scientific positions. We have a number of [measures](#) to promote equality.

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 expert evaluations of their own and other candidates. As an applicant you are considered part of the process and are stipulated by rules of confidentiality.

If you have any questions regarding the position, please contact Ida Westermann, e-mail ida.westermann@ntnu.no.

If you have questions regarding the recruitment process, please contact Joakim Junge Henriksen, e-mail Joakim.henriksen@ntnu.no

Application deadline: 17.08.2026

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.

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.

The Faculty of Natural Sciences

[The Faculty of Natural Sciences](#) is a key player in national and international research and education programmes in natural sciences and technology. Our research focuses on global challenges in the areas of energy, climate, the environment, food, water, health and welfare. The Faculty consists of eight departments as well as the Faculty Administration.

Additional information

Place of service:

Høgskoleringen 1 7491 Trondheim (Trondheim Municipality)