

**Jobbnorge-ID:** 111885

**Søknadsfrist:** Avsluttet

**Nettside:**

**Omfang:**

**Varighet:**

## Head Engineer (code 1087)/Senior Engineer (code 1181) in Ultrasound Technology

The vacant position is at the Ultrasound Research Group at the Department of Circulation and Medical Imaging, the Medical Faculty, NTNU. The Ultrasound Research Group's main focus is the development of medical ultrasound technology, in collaborating with several other groups with complementary expertise at NTNU and St. Olavs Hospital. Main research activities include modelling and simulation of ultrasound wave propagation, ultrasound interaction with tissue and micro/nano particles, ultrasound transducers, beamforming, and Doppler techniques for quantifying blood and tissue movement. New methods are evaluated by numerical simulations as well as *in vitro* and *in vivo* experiments. Clinical applications include myocardial deformation imaging, blood flow imaging, cancer diagnosis, ultrasound-mediated drug and gene therapy, and image-guided therapy. The ultrasound research laboratory has facilities for acoustic measurements and transducer characterization, *in vitro* experiments, as well as various ultrasound imaging systems and data acquisition devices that can be adapted for new imaging modalities and clinical applications.

The Department of Circulation and Medical Imaging, Medical Faculty, NTNU, has 200 employees and embodies an academic environment where clinicians, translational scientists, engineers and industrial innovators work in concert to meet the needs of modern health care within its fields. The Department and the Ultrasound Research Group was recently granted a new 8-year Centre of Research-driven Innovation, focusing on the development of ultrasound imaging technology with applications in medicine, oil&gas, and the maritime industry. Expected startup is in September 2015. For more information please visit [www.ntnu.edu/isb](http://www.ntnu.edu/isb)

### Job description:

- Responsibilities to initiate and develop technical laboratory procedures.
- Day-to-day management of the ultrasound laboratory, such as maintaining equipment and facilitate laboratory experiments, and managing billing.
- Development of software and hardware infrastructure in the Ultrasound Research Group. Software development includes tools for numerical simulation of ultrasound wave propagation and imaging, and algorithms for signal and image processing and visualization. Hardware in this context includes infrastructure for experiments in the ultrasound laboratory such as acoustic (safety) measurements and transducer characterization, and programming of research ultrasound systems.
- Depending on qualifications there will be possibilities for independent research activities.

He/she will also participate in supervision and teaching of master and PhD students in ultrasound technology. And, he/she will participate in national and international research projects, including interdisciplinary projects with other research units at NTNU and St. Olav's Hospital.

NTNU and the Department of Circulation and Medical Imaging want to attract outstanding and creative candidates who can contribute to our ongoing research activities.

### For this position the applicants must have:

- experience in the field of ultrasound imaging.
- a strong background in either acoustics, electronics, signal/image processing, or computer science.
- previous experience in software development (e.g. Matlab and C/C++).
- fluency in English, both oral and written.

Please note that within three years of appointment, new employees who do not speak a Scandinavian language must demonstrate skills in Norwegian or another Scandinavian language equivalent to Level 3 in the course in Norwegian for speakers of other languages at the University.

### Preference will be given to candidates:

- with a relevant PhD.
- with experience in common ultrasound laboratory measurements (e.g. *in vitro* measurements, acoustic measurements, transducer characterization).
- with research experience in medical ultrasound technology, documented through scientific publications.
- with documented ability to work in interdisciplinary research teams.
- with personal creativity and innovation drive.
- who are highly motivated for the position.

The appointment will be made in accordance with current regulations concerning State Employees and Civil Servants. The position will also comply with the local rules and regulations of the University. Depending on qualifications and academic background the position as Head Engineer (Position Code 1087) will be remunerated at wage levels 53 - 83 on the Norwegian State salary scale, with gross salary from NOK 451 200 - NOK 846 000 a year. **Normal wage level is 53 - 59 (NOK 451 200 - NOK 500 000)**. 2 % of the salary is deducted for the Norwegian

Public Service Pension Fund. Depending on qualifications and academic background the position as Senior Engineer (Position Code 1181) will be remunerated at wage levels 58 - 93 on the Norwegian State salary scale, with gross salary from NOK 491 100 - NOK 1 082 300 a year. **Normal wage level is 58 - 69 (NOK 491 100 - NOK 601 400).** 2 % of the salary is deducted for the Norwegian Public Service Pension Fund.

NTNU is an equal-opportunity employer. The university is strongly committed to diversity within its community, and welcomes applications from members of ethnic minorities. NTNU wants to increase the share of women in research positions, so women are encouraged to apply.

#### **How to apply:**

Applicants are asked to apply via this page, and to attach all relevant documents, see list below. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study and grade system and the rights for further studies associated with the obtained degree: [http://ec.europa.eu/education/policies/rec\\_qual/recognition/diploma\\_en.html](http://ec.europa.eu/education/policies/rec_qual/recognition/diploma_en.html).

The candidate's motivation, skills and personal qualifications for the position and project should be described in the application letter. The application should contain the following attachments:

- CV (including information about education, examinations and previous experience).
- Certified copies of testimonies and documents must be attached, and all documents must be in English (unless they already are in a Scandinavian language).
- Copies of publications and any other work which the applicant wishes to be taken into account should also be enclosed.
- Contact information for at least two references (including email addresses and telephone number).
- Other relevant information.

Application deadline: **19th of April 2015.**

For further information please contact:

Professor Lasse Løvstakken: e-mail: [lasse.lovstakken@ntnu.no](mailto:lasse.lovstakken@ntnu.no), phone: +47 913 47 206.

For information concerning the application process, please contact:

HR Executive Officer Nina R. Sundberg, e-mail: [nina.sundberg@ntnu.no](mailto:nina.sundberg@ntnu.no)

*Please note that applications will be assessed based on the information submitted at this page. It is the applicant's responsibility to ensure that all relevant attachments are submitted by the deadline.*

*Please note that under the Norwegian Civil Service Act, information about applicants may be made public even though the applicant has requested not to be included on the list of applicants.*

## **Tilleggsinformasjon**

### **Arbeidssted:**