
Møtereferat

Til stede: Professor Elena Celledoni, professor John Krogstie, Stipendiat Camilla Thorrud Larsen,
FTR Trine Erfjord Meling

Fra administrasjonen: Seksjonsleder Cathrine Haugan Grønvik

Forfall: Dekan Geir Egil Øien, Professor Poul Heegard

Kopi til: Instituttlederne

Gjelder: Møte i Ansettelsesutvalget

Møtetid: Torsdag 23.10.2014. kl. 13.15-14.15 Møtested: G 144, Rådsrommet

Signatur: ABR

AU-sak 071/2014

Søknad om opprykk til professor etter kompetanse innen informatikk.

VEDTAK:

Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til uttalelse fra bedømmelseskomiteen, godkjenner bedømmelsen, og tar komiteens uttalelse til etterretning.

AU-sak 072/2014

Stilling som førsteamanuensis II ved Institutt for matematiske fag. Stillingsinnehaver Ola Diserud

VEDTAK:

Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til begrunnet forslag fra Institutt for matematiske fag og tilbyr

Ola Diserud

stilling som førsteamanuensis II ved Institutt for matematiske fag.

Postadresse	Org.nr. 974 767 880	Besøksadresse	Telefon	Seniorkonsulent
7491 Trondheim	E-post: postmottak@ime.ntnu.no	O. S. Bragstads plass 2 E 7034 Trondheim	+ 47 73 59 42 02	Anne Kristin Bratseth
	http://www.ime.ntnu.no		Telefaks + 47 73 59 36 28	Telefon Tlf: + 47 73 59 67 15

Tilsetningen gjelder for en periode på 3 år, fra 01.01.2015 – 31.12.2017

AU-sak 073/2014

Stilling som professor innen kraftelektronikk ved Institutt for elkraftteknikk.

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen fra Institutt for elkraftteknikk og finner ingen av de to gjenstående søkerne kvalifisert for stillingen

2. Saken avsluttes og sendes tilbake til instituttet for vurdering av eventuell ny kunngjøring.

AU-sak 074/2014

Stilling som førsteamanuensis innen «Electric Power System Operation and Reliability Analysis ved Institutt for elkraftteknikk. Stillingsbeskrivelse

VEDTAK:

Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk slutter seg til forslaget fra Institutt for elkraftteknikk, men ber om at instituttet språkvasker utlysningstekst/stillingsbeskrivelse før kunngjøring og spesielt å se på bruken av ordene: «Associate professor/Associate professorship», «The candidate» og «The applicant»

Associate Professor in Electric Power System Operation and Reliability Analysis

The Faculty of Information Technology, Mathematics and Electrical Engineering at the Norwegian University of Science and Technology (NTNU) invites applications for a full-time associate professorship in electric power system operation and reliability analysis with the Department of Electric Power Engineering.

Information about the Department

The vision of the Department of Electric Power Engineering is to perform research and research-based education at an excellent international level. The department is the leading research group in electric power engineering in Norway, and holds a leading position in Europe in chosen disciplines within its research areas. Activities are organized into three main research areas, which are also responsible for the content of educational main profiles as follows:

- Electric Power Systems (Currently 4 professors, 3 adjunct professors, 2 post docs. and 26 PhD students)
- Electric Power Technology (Currently 3 professors, 2 associate prof. and 9 PhD students)
- Energy Conversion (Currently 3 professors, 1 adjunct professor, 2 post docs and 12 PhD students)

Research and education are supported by laboratory engineers and a mechanical workshop.

Responsibilities and duties.

The associate professorship will have responsibility for teaching and research within power system analysis. The candidate is expected to contribute to research within power system operation and protection with special emphasis on methods and tools for reliability assessments.

The candidate is expected to initiate and take part in national and international research projects and collaborations in accordance with the long-term strategy of the research area. Interdisciplinary collaboration and interaction with the corresponding industry are highly appreciated.

MSc and PhD candidates from the study programs of the faculty are expected to be competitive in an international job market. The associate professor will play a leading/active role in developing the educational profile in the research area and ensuring an excellent learning environment, in collaboration with colleagues, students, and external stakeholders. The faculty's study programs should have a strong international profile, and the associate professor is expected to be able to contribute to the development of international alliances and collaboration. The associate professor is expected to teach relevant courses at all levels and should supervise MSc and PhD students. Continued education is included in the portfolio of educational activities. The ability of the candidate to teach in Norwegian language will thus be emphasized.

The research activities of the department rely crucially on external funding, and the development of educational programs may also receive external funding. The associate professor is expected to work actively to receive research grants and other external income from the Research Council of Norway, Nordic and European research and educational agencies, relevant industry, and other available sources.

In addition to research and education, an associate professor is expected to be able to disseminate relevant parts of her/his research to a wider audience.

The associate professor is expected to participate in the formal management of research, education, and other relevant areas of activity in agreement with the Department Head.

Qualifications for associate professor

The applicant should demonstrate professional qualifications within essential areas of power system analysis. She or he should be able to lead and initiate research at a high international level. The applicant should demonstrate international experience and have a strong publication record in terms of papers in peer-reviewed journals and other relevant international publication channels.

The applicant should demonstrate the ability to develop educational activities and the learning environment. She or he should have experience in the supervision of master and doctoral students or

similar experience qualifying for such work. The applicant should demonstrate communicative skills that qualify for excellent teaching, supervision, and dissemination

Resten ihht. godkjent mal for kunngjøringstekster ved IME.

Det henvises også til HR-portalen vedr. Stillingsbeskrivelse /Utlysningstekst :

<https://feide.compendia.no/ntnu/kilder/ph.nsf/unique/COMH-8XFCPM>

AU-sak 075/2014

Stilling som postdoktor innen «Big Analytics» ved Institutt for datateknikk og informasjonsvitenskap

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen og tilbyr stilling som postdoktor innen BigData Analytics til:

Massimiliano Ruocco

2. Dersom Ruocco ikke tar i mot stillingen gis samme tilbud til:

Orestis Gkorgkas

Tilsettingen gjøres under forutsetning av at intervju er gjennomført.

Tiltreden etter avtale med instituttet.

3. Dersom ingen av de innstilte tar i mot stillingen sendes saken tilbake til instituttet for eventuell ytterligere vurdering før ny kunngjøring.

AU-sak 076/2014

Forlengelse av stilling som professor ut over fylte 70 år ved Institutt for telematikk.

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til anmodning fra Institutt for telematikk, slutter seg til anmodningen og tilbyr forlengelse av stilling som professor til:

Rolv Bræk

Forlengelsen gjøres gjeldende for perioden: 13.11.2014 – 31.12.2015.

AU-sak 077/2014**Forlengelse av stilling som professor II ut over fylte 70 år ved Institutt for telematikk.****VEDTAK:**

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til anmodning fra Institutt for telematikk, slutter seg til anmodningen og tilbyr forlengelse av stilling som professor II til:

Jan Arild Audestad

Forlengelsen gjøres gjeldende for perioden: 25.01.2015 – 31.12.2015.

AU-sak 078/2014**Fast tilsetning av Rune Sætre ved Institutt for datateknikk og informasjonsvitenskap.****VEDTAK:**

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen fra Institutt for datateknikk og informasjonsvitenskap og tilbyr fast tilsetning som førstelektor til:

Rune Sætre**AU-sak 079/2014****Søknad om permisjon fra stilling som førsteamanuensis ved Institutt for telematikk.****VEDTAK:**

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til anmodning fra Institutt for telematikk, slutter seg til anmodningen og innvilger 80% permisjon i 3 år fra stilling som førsteamanuensis til

Wantanee Viriyasitavat**AU-sak 080/2014****Stilling som professor II/førsteamanuensis II ved Institutt for telematikk.**

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen og tilbyr stilling som førsteamanuensis II til:

Min Xie
Bjørn J. Villa
Martin Eian
Amir Taherkordi
Otto J. Wittner
Erik Larsen Følstad

Tiltreden etter avtale med instituttet.

For søker Erik Larsen Følstad er det en forutsetning om avlagt doktorgrad før inntredelse i stilling som førsteamanuensis II.

2. Dersom en eller flere av de innstilte søkerne takker nei til stillingen sendes saken i retur til Institutt for telematikk for videre vurdering av de øvrige søkerne. Det presiseres at tilsetting av de som takker ja ikke skal forsinkes av dette.

AU-sak 081/2014

Stilling som postdoktor innen «Intermediate Band Solar Cells» ved institutt for elektronikk og telekommunikasjon

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen og tilbyr stilling som post doktor innen Intermediate band solar cells” (MBE growth of III-V:N QD materials til:

Mohana Rajpalke.

Tilsettingen gjelder for en periode på inntil tre år

Tiltreden etter avtale med instituttet.

2. Dersom Mohana Rajpalke ikke tar i mot stillingen, sendes saken tilbake til instituttet for ny behandling.

AU-sak 082/2014

Stilling som stipendiat innen ”Silicon Photonic Biosensor for Detection of Antigens” ved Institutt for elektronikk og telekommunikasjon.

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen og tilbyr stilling som stipendiat innen Silicon Photonic Biosensor for Detection of Antigens til:

Jens Høvik

2. Dersom Jens Høvik ikke tar i mot stillingen gis samme tilbud til:

Hoa Le Than**AU-sak 083/2014**

Stilling som postdoktor innen Signal Processing for Home Automation ved Institutt for elektronikk og telekommunikasjon.

VEDTAK:

1. Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk viser til skriftlig underlagsmateriale, slutter seg til innstillingen og tilbyr stilling som post doktor innen Signal Processing for Home Automation til:

Juan Felipe Miranda Medina

2. Dersom Juan Felipe Miranda Medina ikke tar i mot stillingen gis samme tilbud i rekkefølge til:

Eka Suwartadi

Seshadhri Srinivasan

Tilsettingen gjelder for en periode på inntil 2 år med mulighet for en forlengelse på inntil 6 mndr., avhengig av finansiering.

Tiltreden etter avtale med instituttet.

3. Dersom ingen av de innstilte tar i mot stillingen sendes saken tilbake til instituttet for ytterligere vurdering av de øvrige søkerne som er funnet kvalifisert.

AU-sak 084/2014

To stillinger som førsteamanuensis innen «Software Engineering og Computer Architecture ved Institutt for datateknikk og informasjonsvitenskap.

VEDTAK:

Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk slutter seg til forslaget fra Institutt for datateknikk og informasjonsvitenskap og vedtar følgende utlysningstekst/stillingsbeskrivelse for stillingen som førsteamanuensis innen Software Engineering og Computer Architecture:

Associate Professor in Software Engineering

The Faculty of Information Technology, Mathematics and Electrical Engineering at the Norwegian University of Science and Technology (NTNU) <http://www.ntnu.edu/ime> invites applications for a full-time associate professorship in Software Engineering affiliated with the Department of Computer and Information Science (<http://www.ntnu.edu/idi>)

Information about the Department

Currently there are 25 professors and 12 associate professors at the department. In addition there are 10 adjunct associate professors, 8 postdoctoral researchers, approx. 65 active PhD students, and 18 technical/administrative staff. Five of the tenured scientific positions are held by women, and eight are from other countries than Norway. Research activities are organized into six groups; algorithms/HPC/graphics, computer architecture and design, data and information management, information systems, intelligent systems, and software engineering.

The department has a wide range of teaching responsibilities, ranging from fundamental education in information technology for other engineering and natural science students, a Bachelor's program in Informatics, Master's programs in Informatics and Information Systems also for foreign students and a Computer Science program for engineering students, as well as PhD education and continuing education.

Field of research and teaching for the associate professorship

Software engineering, from the perspective of this position announcement, concerns methods and tools for development and maintenance of large and complex software systems, with an empirically oriented and applied perspective, with high relevance for the software development industry and society. With a focus on large and complex systems, important areas include:

- All aspects of software dependability – i.e. availability, reliability, safety and security
- Development of highly dependable systems using agile methods
- Measurement of software project and system characteristics

The associate professor is expected to play a leading role in research and research based education in software engineering in collaboration with the existing staff. Research activities are expected to have a strong international profile and impact. The research in software engineering should have a long-term perspective according to the strategy of the department and contribute to the current group research. Currently the group is doing research on a wide range of areas relative to the development, use and evolution of information and software systems on enterprise, workgroup and personal level. Research is done relative to systems both in private and public sector, including the health sector, supporting work, learning and entertainment. Systems applies technologies for enterprise integration as well as component composition within and across organizations in digital ecosystems including the utilization of mobile and ubiquitous technologies, social media, big data analytics and gaming technologies.

Responsibilities and duties

MSc and PhD candidates from the study programs of the faculty are expected to be competitive in an international job market. The associate professor will play a leading role in developing the educational profile in software engineering and ensuring an excellent learning environment, in collaboration with colleagues, students, and external stakeholders. The faculty's study programs should have a strong international profile, and the associate professor is expected to be able to contribute to the development of international alliances and collaboration. The associate professor is expected to teach relevant courses at all levels and should supervise MSc and PhD students. Continued education is included in the portfolio of educational activities.

The research activities of the department rely crucially on external funding, and the development of educational programs may also receive external funding. The associate professor is expected to work actively to receive research grants and other external funding from the Research Council of Norway, Nordic and European research and educational agencies, relevant industry, and other available sources.

In addition to research and education, an associate professor is expected to be able to disseminate relevant parts of her/his research to wider audience. The associate professor is furthermore expected to participate in the formal management of research, education, and other relevant areas of activity in agreement with the Department Head.

Qualifications

The applicant has to demonstrate professional qualifications within essential areas of software engineering and scientific competence within one or more areas of specialty. She or he should have a good publication record in terms of recent papers in international peer-reviewed journals and recent publications in other relevant, well-known international publication channels. Documented external funding and experience with research leadership will be rated positively. A person employed in the category of associate professor should have research potential which makes it likely to qualify for full professorship within five years of employment, even with normal teaching duties.

The applicant should demonstrate the ability to develop educational activities and the learning environment. She or he should have experience in the supervision of master and doctoral students or similar experience qualifying for such work. The applicant should demonstrate communicative skills that qualify for excellent teaching, supervision, and dissemination, and have good collaboration skills necessary for joint projects with colleagues. Relevant collaboration with industry will also be considered positively.

The candidates must be able to document significant research experience and contributions in the international frontline within the field of the position. Scientific qualifications at least equivalent to a doctoral degree within one or several subareas of the field is required, with emphasis on the areas for which the position has special responsibility. The candidate's personal aptitude and motivation for the position will be assigned great weight in the selection process.

Qualifications for the associate professorship

To be employed as an associate professor the candidate must have a good publication list in international peer-reviewed conferences and journals, and must have demonstrated capability to initiate and lead research. Documented capability to attract external research funding will be seen as positive.

Experience with development of courses and educational activities, and supervision of master and doctoral students will be regarded as positive for applicants to the associate professorship. The applicants should also demonstrate the communication skills required for excellent teaching, supervision and dissemination.

The Software Engineering field has a long-standing and good tradition for collegial collaboration, and the ability for teamwork will be central. Ability to, and interest in, collaboration with neighboring scientific areas is also important

Further details about the associate professorship can be obtained from Professor John Krogstie, phone (+47) 73593677 or e-mail: krogstie@idi.ntnu.no,

or Head of the Department, Letizia Jaccheri. Phone (+47) 73593469, or e-mail: letizia.jaccheri@idi.ntnu.no.

For information about processing of applications, please contact Senior Executive Officer Anne Kristin Bratseth, Phone (+47) 73596715, Email: anne.kristin.bratseth@ime.ntnu.no

Application requirements

The application should contain:

- CV including information pertaining to the given qualifications and a full list of publications with bibliographical references
- Testimonials and certificates
- The most important publications that are relevant for the evaluation of the applicant's qualifications
- (maximum 10 publications) A brief description of the scientific/technological relevance of the candidate's research
- Research proposal for the first five years of employment (maximum 10 pages)
- Information about educational experience, including development of study programs, curricula, teaching experience, and development of teaching methods and the learning environment. (Documentation of an applicant's pedagogical qualifications: <http://www.ntnu.edu/vacancies/pedagogical-qualifications>)
- Information about dissemination activities
- Other documents which the applicant would find relevant.

Joint works will also be evaluated. If it is difficult to identify the contributions from individuals in a scientific collaboration, applicants are to enclose a short summary of her/his contribution.

NTNU expressively invites applications from qualified female scientists.

The applications will be evaluated by an international expert committee. The applicants that have been short-listed, will be invited for interviews and trial lectures. The successful applicant will ideally start in the second half of 2015.

Associate Professor in Computer Architecture

The Faculty of Information Technology, Mathematics and Electrical Engineering at the Norwegian University of Science and Technology (NTNU) <http://www.ntnu.edu/ime> invites applications for a full-time associate professorship in Computer Architecture affiliated with the Department of Computer and Information Science (<http://www.ntnu.edu/idi>). The position is announced within the research area of the Computer Architecture and Design (CARD) group.

Information about the Department

Currently there are 25 professors and 12 associate professors at the department. In addition there are 10 adjunct associate professors, 8 postdoctoral researchers, approx. 65 active PhD students, and 18 technical/administrative staff. Five of the tenured scientific positions

are held by women, and eight are from other countries than Norway. Research activities are organized into six groups; algorithms/HPC/graphics, computer architecture and design, data and information management, information systems, intelligent systems, and software engineering.

The department has a wide range of teaching responsibilities, ranging from fundamental education in information technology for other engineering and natural science students, a Bachelor's program in Informatics, Master's programs in Informatics and Information Systems also for foreign students and a Computer Science program for engineering students, as well as PhD education and continuing education.

Field of research and teaching for the associate professorship

Computer architecture, from the perspective of this position announcement, concerns the methods, analysis and models that form the basis for the implementation of computer system architectures. The hardware/software interface is at the core of the research and teaching of the CARD group, and the associate professor must document proficiency in the modelling, analysis, design and implementation of parallel processor architectures as well as the development of low-level software. In addition, the candidate should document hands-on experience with computer architecture evaluation using prototyping or simulation.

The associate professor is expected to play a leading role in research and research based education in computer architecture in collaboration with the existing staff. Research activities are expected to have a strong international profile and impact. The research in computer architecture should have a long-term perspective, target fundamental computer architecture challenges and follow the strategy of the department and the faculty. In addition, the research should be relevant to the Energy Efficient Computing Systems (EECS) faculty research initiative.

Responsibilities and duties

MSc and PhD candidates from the study programs of the faculty are expected to be competitive in an international job market. The associate professor will play a leading role in developing the educational profile in computer architecture and ensuring an excellent learning environment, in collaboration with colleagues, students, and external stakeholders. The faculty's study programs should have a strong international profile, and the professor is expected to be able to contribute to the development of international alliances and collaboration. The associate professor must be able to teach all CARD group courses, teach courses concerning basic computer science and supervise MSc and PhD students.

The research activities of the department rely on external funding. The associate professor is expected to work actively to win research grants and other external funding from the Research Council of Norway, Nordic and European research agencies, relevant industry as well as other available sources.

In addition to research and education, an associate professor is expected to be able to disseminate relevant parts of her/his research to wider audience. The associate professor is also expected to participate in the formal management of research, education, and other relevant areas of activity in agreement with the Department Head.

Qualifications

The applicant has to demonstrate professional qualifications within essential areas of Computer Architecture and scientific competence within one or more areas of specialty. She or he should have a good publication record in terms of recent papers in international peer-reviewed journals and recent publications in other relevant, well-known international publication channels. Documented external funding and experience with research leadership will be rated positively. A person employed in the category of associate professor should have research potential which makes it likely to qualify for full professorship within five years of employment, even with normal teaching duties.

The applicant should demonstrate the ability to develop educational activities and the learning environment. She or he should have experience in the supervision of master and doctoral students or similar experience qualifying for such work. The applicant should demonstrate communicative skills that qualify for excellent teaching, supervision, and dissemination, and have good collaboration skills necessary for joint projects with colleagues. Relevant collaboration with industry will also be considered positively.

The candidates must be able to document significant research experience and contributions in the international frontline within the field of the position. Scientific qualifications at least equivalent to a doctoral degree within one or several subareas of the field is required, with emphasis on the areas for which the position has special responsibility. The candidate's personal aptitude and motivation for the position will be assigned great weight in the selection process.

Qualifications for the associate professorship

To be employed as an associate professor the candidate must have a good publication record in international, peer-reviewed conferences and journals, and must have demonstrated the ability to initiate and lead research. Documented capability to attract external research funding will be seen as positive. Experience with development of courses and educational activities, and

supervision of master and doctoral students will be regarded as positive for applicants to the associate professorship. The applicants should also demonstrate the communication skills required for excellent teaching, supervision and dissemination.

The Computer Architecture and Design (CARD) research group has a long-standing and good tradition for collegial collaboration, and the ability for teamwork will be central. Ability and interest for collaboration with neighboring scientific areas is also important. Further details about the associate professorship can be obtained from Associate Professor Magnus Jahre, phone (+47) 952 22 309 or e-mail: magnus.jahre@idi.ntnu.no, or Head of the Department, Letizia Jaccheri. Phone (+47) 73593469, or e-mail: letizia.jaccheri@idi.ntnu.no.

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- Research proposal for the first five years of employment (maximum 10 pages)
- Information about educational experience, including development of study programs, curricula, teaching experience, and development of teaching methods and the learning environment. (Documentation of an applicant's pedagogical qualifications: <http://www.ntnu.edu/vacancies/pedagogical-qualifications>)
- Information about dissemination activities
- Other documents which the applicant would find relevant.

Joint works will also be evaluated. If it is difficult to identify the contributions from individuals in a scientific collaboration, applicants are to enclose a short summary of her/his contribution.

NTNU expressively invites applications from qualified female scientists.

The applications will be evaluated by an international expert committee. The applicants that have been short-listed, will be invited for interviews and trial lectures. The successful applicant will ideally start in the second half of 2015.

AU-sak 085/2014

Stilling som førsteamanuensis innen matematikdidaktikk ved Institutt for matematiske fag

VEDTAK:

Ansettelsesutvalget ved Fakultet for informasjonsteknologi, matematikk og elektroteknikk slutter seg til forslaget fra Institutt for matematiske fag, og vedtar følgende stillingsbeskrivelse:

Førsteamanuensis i matematikdidaktikk

Ved [Fakultet for informasjonsteknologi, matematikk og elektroteknikk ved Norges teknisk-naturvitenskapelige universitet \(NTNU\)](#) er det ledig en førsteamanuensis-stilling innen matematikdidaktikk ved [Institutt for matematiske fag](#).

Informasjon om instituttet

For tiden er det 38 professorer og 9 førsteamanuenser ved instituttet. I tillegg er det 1 professor II, 6 førsteamanuensis II, omtrent 20 postdoktorer og omtrent 65 ph.d.-studenter. 7 av de faste vitenskapelig ansatte er kvinner. Instituttet er organisert i fem faggrupper, som er algebra, analyse, differensialligninger og numerisk analyse, geometri/topologi og statistikk.

Instituttet har store undervisningsoppgaver innenfor sivilingeniør- og realfagstudiene, og har en sentral rolle i masterprogrammet Lektorutdanning i realfag ved NTNU. Dette inkluderer all grunnundervisning i matematiske fag for sivilingeniør- og realfagstudentene, et bachelorprogram i matematiske fag, masterprogram i matematikk og statistikk og studieretningen industriell matematikk for sivilingeniørene. Rekrutteringen til masterprogrammene er veldig god, noe som også fører til god rekruttering til instituttets ph.d.-program. Instituttet ønsker å opprettholde og styrke sine forskningsaktiviteter innen matematiske fag, stimulere utvikling av sterke grupper innen ren og anvendt matematikk, og bygge ut veiledningskapasiteten for master- og doktorgrad. Instituttet tar også sikte på å bidra med utvikling av tverrfaglig forsknings- og undervisningssamarbeid innenfor NTNUs hovedprofil. Som en del av den tverrfaglige forskningen ved IMF regnes også forskningsaktiviteten i matematikdidaktikk.

Stillingsbeskrivelse

Førsteamanuensen forventes å ha en ledende rolle innen forskning og forskningsbasert undervisning innen matematikdidaktikk. Førsteamanuensen vil ha et spesielt ansvar for de matematikdidaktiske emnene i masterprogrammet Lektorutdanning i realfag og for instituttets videreutdanningstilbud for lærere. Det forventes at forskningsaktivitetene har en sterk internasjonal profil og tyngde. Forskningen bør ha et langsiktig perspektiv i henhold til instituttets strategi og være sentrert rundt grunnleggende problemstillinger innen utdanningsforskning innen matematikk. Instituttet ønsker spesielt å styrke forskningsaktiviteten tilknyttet høyere utdanning.

Førsteamanuensen vil ha ansvar for utviklingen av utdanningsprofilen for matematiske fag og fagdidaktikk, og sikre et fremragende læringsmiljø, i samarbeid med kollegaer, studenter og eksterne samarbeidspartnere. Fakultetets studieprogram har en sterk internasjonal profil, og det forventes at førsteamanuensen vil bidra til utvikling av internasjonale allianser og samarbeid.

Førsteamanuensen skal delta i ordinær undervisning i grunnutdanningen, inklusive etter- og videreutdanning, samt gi relevante kurs på alle nivå. Hun eller han skal også veilede bachelor-, master- og ph.d.-studenter. Spesielt vil veiledningsoppgaver tilknyttet lektorutdanningen i realfag være sentrale.

Førsteamanuensen forventes å søke aktivt for å oppnå forskningsstøtte og andre eksterne midler fra Forskningsrådet, nordiske og europeiske forsknings- og utdanningsmyndigheter, og andre mulige kilder.

I tillegg til forskning og undervisning forventes det at en førsteamanuensis er i stand til å formidle relevante deler av sin forskning til et videre publikum. Det forutsettes videre at førsteamanuensen deltar i administrasjon av forskning, undervisning og andre relevante oppgaver etter avtale med instituttleder.

Kvalifikasjoner

Søkere må ha doktorgrad i matematikk eller i matematikdidaktikk. Det vil bli lagt avgjørende vekt på forskningskompetanse i matematikdidaktikk. Det kreves også en solid bakgrunn i matematikk, minst tilsvarende fullført mastergrad med meget gode resultater.

Søkere bør ha en solid publikasjonsliste i fagfelleevaluerte journaler og andre relevante internasjonale publiseringskanaler. Dokumentert forskningsfinansiering fra relevante kilder og erfaring fra å lede forskningsprosjekter vil tillegges vekt.

Det vil videre bli lagt vekt på pedagogiske evner og utdanning. Denne vurderingen vil bygge på dokumentert pedagogisk kompetanse, herunder pedagogisk utdanning/erfaring, framstillingsform i de vitenskapelige arbeider, erfaring fra mastergrads- og doktorgradsveiledning og undervisning, samt pedagogisk bakgrunn av annen art. I vurderingen vil både kvalitet og bredde bli vurdert. Det er en fordel om søkeren har kunnskap om det norske og/eller nordiske skolesystem.

Det henvises til HR-portalens vedr. *Stillingsbeskrivelse/Utlysningstekst (tidligere betenkning)*

<http://feide.compendia.no/ntnu/kilder/ph.nsf/unique/COMH-8XFCPM>

Associate Professor in Didactics of Mathematics

[The Faculty of Information Technology, Mathematics and Electrical Engineering \(IME\)](#) at the [Norwegian University of Science and Technology \(NTNU\)](#) invites applications for a position as Associate Professor at the [Department of Mathematical Sciences](#).

About the Department

There are 38 full professors and 9 associate professors at the department. In addition there are 1 adjunct professor, 6 adjunct associate professors, about 20 postdoctoral fellows, and about 65 doctoral students. There are 7 women in tenured positions. The department has five research groups: algebra, analysis, differential equations and numerical analysis, geometry and topology, and statistics.

The department has a wide range of teaching responsibilities. This includes all the basic education in mathematical sciences for engineering and natural science students, Bachelor's and Master's programs in Mathematical Sciences, and a special Master's program in Industrial Mathematics for engineering students. The department also plays a central role in a Master's program for high school science teachers. The master programs enjoy ample recruitment of highly qualified candidates, and as a consequence, the same holds also for the PhD-program.

The department aims to sustain and strengthen the research activity within mathematical sciences, stimulate the development of strong research groups within pure and applied mathematics, and strengthen the capacity for supervising master- and PhD-students. The department also aims to contribute to the development of interdisciplinary collaboration within research and education, and this also involves research activity within didactics of mathematics.

Job description

The person hired is expected to play a leading role in research and research-based education within mathematical sciences. She or he will in particular be expected to be responsible for the courses involving didactics of Mathematics in the Master's program for high school science teachers, and to actively involve in the department's program for continuing education in mathematics for teachers.

The research activities of the successful candidate should have a strong international profile and impact, with long-term perspectives in accordance with the strategy of the department. It should focus on basic aspects of educational research within mathematics. The department wishes to strengthen the research activity associated with higher education.

The associate professor will be responsible for developing the educational profile for mathematical sciences and didactics of mathematics, and in ensuring an excellent study and working environment, in cooperation with colleagues, students and external collaborators.

The educational programs of the faculty have a strong international profile. The associate professor is therefore expected to contribute to creating international alliances and collaborations.

The associate professor should contribute to teaching at the basic level, including the educational activities in continuing education. Teaching duties also include relevant courses at all levels and the supervision of Bachelor, Master and PhD students. A particular duty will be supervision of students in the program for education of high school teachers in sciences.

The successful candidate is expected to work actively to obtain research grants and other external funding from the Research Council of Norway, from Nordic and European research and educational agencies, and from other relevant sources.

In addition to doing research and teaching, associate professors in the department are expected to disseminate relevant parts of their research to a wider audience.

The associate professor is also expected to take part in administration and management of research and education, and in other relevant activities of the department in agreement with the head of department. Research experience in Didactics of Mathematics is of crucial importance.

Qualifications

Applicants should have a PhD in Mathematics or Didactics of Mathematics. Research expertise in Didactics of Mathematics is essential. A solid record in mathematics is also required; at the minimum a master degree with excellent results.

Applicants should have a good publication record in terms of papers in peer-reviewed journals and other relevant international publication channels. Documented experience in obtaining external research funding and in leading research projects is an advantage.

Pedagogical skills will be evaluated and emphasized. The evaluation will be based on documented pedagogical training and experience, the presentation of academic work, teaching, and experience in supervising Master's and doctoral students, in addition to other relevant pedagogical skills. Both the quality and the scope of pedagogical expertise will be assessed. It is an advantage to have knowledge concerning the Norwegian and/or the Nordic school system.

