



UNIVERSITETET I BERGEN

**University of
Bergen**
Department of
Informatics

Jobbnorge ID: 197231

Deadline: 1/20/2021

Website: <https://www.uib.no/om/84775/ledige-stillinger-ved-uib>

Scope: Fulltime

Duration: Fixed Term

Postdoctoral Research Fellow position within Informatics - Signal Design for Wireless Communications

UiB - Knowledge that shapes society

Through robust and close interaction with the world around us - globally, nationally and locally - we shall be instrumental in building a society based on knowledge, skills and attitudes.

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Video: <https://www.youtube.com/watch?v=JRdMR-PhbBQ&t=4s>

Postdoctoral Research Fellow position within Informatics - Signal Design for Wireless Communications

At the [Department of Informatics](#) there is a vacancy for a postdoctoral research fellow position within Informatics - Signal Design for Wireless Communications. The position is for a fixed term of 3 years and connected to the project "SETA - Sequences and their applications", and financed by the Research Council of Norway through the IKTPLUSS program.

About the department

Digitization of businesses, industry, public administration, and education makes informatics play an increasingly important role in the development of the society. Research and education in informatics are crucial for the digital transformation of the society to succeed. The Department of informatics contributes to this through seven research groups that deliver research and education at a high international level in algorithms, bioinformatics, information security, machine learning, optimization, programming theory, and visualization. All the groups are successfully co-funded by research grants, among others by the European Research Council (ERC). The department offers state of art education at Bachelor, Master and PhD levels. Due to the central role informatics plays in society, the department is in rapid growth, in the number of students, research directions, and employees. We have today about 700 students, and 150 employees, among which 35 are faculty and 50 PhD candidates. We recently founded the Center for Data Science ([CEDAS](#)) as an important extension of our research and education activities.

About the project/work tasks:

We are looking for an excellent candidate who has a strong desire to contribute to excellence through high international quality research and teaching. The working environment for this position will be the Selmer Center in Secure Communication.

The Selmer Center is one of the top ICT research groups with main research in areas of sequence design, coding theory, cryptography, Boolean functions, information security, and quantum information theory. We are seeking excellent candidates in the direction of wireless communications and 5G mobile communications. We are particularly interested in applicants who excel at mathematics, channel coding theory, sequence design and multiple-access schemes in wireless communications.

Qualifications and personal qualities:

- Applicants must hold a Norwegian PhD or an equivalent degree within mathematics and digital communications, or must have submitted his/her doctoral thesis for assessment prior to the application deadline and must have completed defence of the PhD-thesis by March 31st, 2021. It is a condition of employment that the PhD has been awarded.
- Education background within channel coding, sequence/signal/waveform design for wireless communications is an advantage
- Research experience on non-orthogonal multiple-access, particularly on sparse-code multiple access for (MIMO) wireless networks is an advantage
- Publications on the aforementioned topic in leading journals is an advantage
- Bachelor and master supervision experience is an advantage
- Applicants must be able to work independently and in a structured manner and have the ability to cooperate with others.
- Applicants must have excellent skills in oral and written English.

- Personal and relational qualities will be emphasized. Research experience, ambitions and potential will also count when evaluating the candidates.

About the position of postdoctoral research fellow:

The postdoctoral position is a fixed term position with the primary objective of qualifying the appointee for work in top academic positions. 10% of the working time will be devoted to teaching and outreach activities at the Department of informatics. Individuals may not be hired for more than one fixed-term period as a postdoctoral research fellow at the same institution.

Upon appointment, applicants must submit a project proposal for the qualifying work including a work schedule. For postdoctoral research fellow positions associated with externally financed projects, the completion of the project proposal for the qualifying work will take place in consultation with the project/centre manager. It is a requirement that the project is completed in the course of the period of employment.

We can offer:

- a good and professionally stimulating working environment
- salary at pay grade 60 (code 1352 / pay range 24, alternative 4) according to the state salary scale upon appointment. This constitutes a gross annual salary of NOK 532 300. Further promotions are made according to length of service. For particularly highly qualified applicants, a higher salary may be considered.
- enrolment in the Norwegian Public Service Pension Fund
- good [welfare benefits](#)

Your application must include:

- a brief account of the applicant's research interests and motivation for applying for the position.
- the names and contact information for two referees. One of these should be the main advisor from the PhD programme.
- CV
- Transcripts and diplomas. If you have not yet completed your PhD degree, please submit a statement from your institution confirming the expected date of award of your degree. Your PhD degree must be documented with transcripts and/or diploma, alternatively a confirmation from your institution on completed degree, by 31.03.2021.
- relevant certificates/references
- list of any works of a scientific nature (publication list)
- publications (as applicable)

The application and appendices with certified translations into English or a Scandinavian language must be uploaded at JobbNorge by 20.01.2021

General information:

Detailed information about the position can be obtained by contacting:

[Associate professor Chunlei Li](#)

For HR related matters, please contact [Lene Sørheim](#).

Employment is subject to approval with respect to the Norwegian export control legislation.

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

We encourage women to apply. If multiple applicants have approximately equivalent qualifications, the rules pertaining to moderate gender quotas shall apply.

The University of Bergen applies the principle of public access to information when recruiting staff for academic positions.

Information about applicants may be made public even if the applicant has asked not to be named on the list of persons who have applied. The applicant must be notified if the request to be omitted is not met.

Further information about our employment process can be found [here](#).

About The University of Bergen (UiB)

The University of Bergen is a renowned educational and research institution, organised into seven faculties and approximately 54 institutes and academic centres. Campus is located in the centre of Bergen with university areas at Nygårdshøyden, Haukeland, Marineholmen, Møllendalsveien and Årstad.

There are seven departments and several centres at Faculty of Mathematics and Natural Sciences. [Read more about the faculty](#) and [departments](#).

Additional information

Place of service:

Christiesgt. 18 5020 Bergen (Bergen Municipality)