

Jobbnorge ID: 258148
Deadline: 3/8/2024
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Temporary

The Department of Computer Science has a vacancy for a

Postdoctoral Fellow in Implementation of IT-Applications in the Higher Education Sector

This is NTNU

NTNU is a broad-based university with a technical-scientific profile and a focus in professional education. The university is located in three cities with headquarters in Trondheim.

At NTNU, 9,000 employees and 43,000 students work to create knowledge for a better world.

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

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

About the job

The postdoctoral fellowship position is a temporary position where the main goal is to qualify for work in senior academic positions.

The project is a collaboration between NTNU IT-department and IDI - Department of computer science which have a number of leading researchers in information-systems, software engineering and AI.

The higher education sector is undergoing large changes. With more limited resources and on many areas increasing international competition, the area is, as other sectors, undergoing digitalization to support more efficient, effective, and sustainable operations.

Whereas historically many solutions have been made internally at many universities, one sees an increasing interest in developing solutions based on common digital service platforms to enhance interoperability, distribute cost, and speed up delivery of new solutions. Lately also new implementation technology has become available, most notably generative AI-based (GAI) co-pilot technology.

The 3 year post-doctoral researcher to follow the process of procuring, developing and implementing solutions at NTNU as a representative of the higher education and research domain, with a focus on following the process when combining co-pilot technology and digital platform ecosystems. The candidate will work in close connection to activities at NTNU IT.

Your immediate leader is the head of the ISSE group.

Duties of the position

The candidate will follow one or more IT-initiatives at NTNU and study the process based on knowledge and research methods from the software engineering and information systems field.

Sub-topics can include:

- Pre-procurement process: How to clarify needs and requirements before the procurement, and ensure that they are being fulfilled given the rules for public procurement. Ensure business-case is develop according to all dimensions of sustainability.
- Sourcing. Both in general and of digital platforms. How to make decision on the platform to use as basis for the developments in an area and what competency is needed inhouse to make and evaluate requirements to digital platforms.
- Participatory definition and follow-up of requirements to applications built on top of a given platform.
- Ensuring that changes in platform to not endangering fulfilling core requirements.
- Platform customization process as a software engineering process, and use of co-pilot technology in the development of custom solutions in combination with digital platforms.
- How to ensure the sustainability of the overall solution (technical, ecological, personal, social, economical).
- Implementation and further evolution of platform-based applications based on learnings from use. Ensure benefit management realization.

Required selection criteria

The postdoc's main objective is to enhance and further develop research skills acquired during the PhD.

- Completion of a Norwegian doctoral degree in Information Systems, Software Engineering, human computer interaction, CSCW or a related area, or corresponding foreign doctoral degree recognized as equivalent to a Norwegian doctoral degree is required. 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.
- A good, documented understanding of the relevant research fields, including information systems and software engineering.
- Software and information systems engineering skills.
- Proven skills in applying qualitative, quantitative, or mixed research methods in real-world organizations.
- Demonstrated research capability via a good publication record in the relevant areas.
- The ability and willingness to conduct research independently as well as collaboratively in a multidisciplinary team.
- Excellent written and oral English language skills.
- Good oral skills in a Scandinavian language.

The appointment is to be made in accordance with [Regulations on terms of employment for positions such as postdoctoral fellow, Ph.D Candidate, research assistant and specialist candidate](#).

Preferred selection criteria

- Knowledge and experience with issues related to use of co-pilot technology.
- Knowledge of the higher education domain.
- Knowledge with digital platform ecosystems.

Personal characteristics

- Ability to interact, also independently, with various stakeholders including external organizations.
- Ability to deal with cross-disciplinary challenges.
- Demonstrated ability to quickly acquire knowledge in new topics.
- Demonstrated ability to work independently as well as in a team-based environment.
- Passion for uncovering new knowledge and explaining it to others.

We offer

- exciting and stimulating 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](#)

Salary and conditions

As a Postdoctoral Fellow (code 1352) you are normally paid from gross NOK 594 500 per annum before tax, depending on qualifications and seniority. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund.

The employment period is 3 years, one of which is dedicated for compulsory work.

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

The application and supporting documentation to be used as the basis for the assessment 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.

The application must include:

- CV, including a list of all publications in peer-reviewed conferences and journals.
- Certified copies of diplomas.
- The 5 most significant publications attached as pdf files, including an explanation in the below mentioned research statement, of their relevance to this position.
- A research statement of 2 to 3 pages. The statement must include the following sections:
 - A short presentation of the motivation for applying to this position.
 - How the candidate sees her/his background as suitable to contribute to the area of the position.

- o Theoretical and methodological knowledge about the research area.
 - o A sketch of important research problems in the research area in the area of the position.
 - o A summary of the candidate's role and involvement in previous projects relevant for the research areas.
- Name, phone number and email address of three referees.

Incomplete applications will not be considered.

If all, or parts, of your education has been taken abroad, we also ask you to attach documentation of the scope and quality of your entire education. Description of the documentation required can be found [here](#). If you already have a statement from NOKUT, please attach this as well.

Joint works will be considered. If it is difficult to identify your contribution to joint works, you must attach a brief description of your participation.

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.

NTNU is committed to following evaluation criteria for research quality according to [The San Francisco Declaration on Research Assessment - DORA](#).

General information

[Working at NTNU](#)

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 at all times adhere to the changes that the development in the subject entails and the organizational changes that are adopted.

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.

If you have any questions about the position, please contact Professor John Krogstie, email john.krogstie@ntnu.no, telephone +4793417551. or the Head of Department Professor Heri Ramampiaro, email heri@ntnu.no. If you have any questions about the recruitment process, please contact HR, e-mail: HR@IDI.ntnu.no

If you think this looks interesting and in line with your qualifications, please submit your application electronically via jobbnorge.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: 08.03.24

NTNU

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

Department of Computer Science

We are the leading academic IT environment in Norway, and offer a wide range of theoretical and applied IT programmes of study at all levels. Our subject areas include hardware, algorithms, visual computing, AI, databases, software engineering, information systems, learning technology, HCI, CSCW, IT operations and applied data processing. The Department has groups in both Trondheim and Gjøvik. The [Department of Computer Science](#) is one of seven departments in the [Faculty of Information Technology and Electrical Engineering](#).

Additional information

Contact person:

John Krogstie, Professor

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Place of service:

Høgskoleringen 1 7491 Trondheim (Trondheim Municipality)