

Jobbnorge ID: 186855
Deadline: 7/10/2020
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Temporary

The Department of Computer Science has vacancy for a position as

PhD candidate in the Semantic Web Field

This is NTNU

At NTNU, creating knowledge for a better world is the vision that unites our 7 400 employees and 42 000 students.

We are looking for dedicated employees to join us.

Video: <https://www.youtube.com/watch?v=clgKd1SwGLI>

About the position

We have a vacancy for a position as PhD fellow at the Department of Computer Science(IDI) in the Semantic Web field.

The PhD project, "Visual Query Formulation for Industrial Spatial Knowledge Graphs (ViSPA)", aims at providing domain experts, in high-value and data-intensive businesses such as agriculture, maritime, and oil and gas, with better ways to access highly complex spatial data. This will be realized by discovering new knowledge on the factors affecting end-user's understanding and perception of geospatial abstractions. The solution includes exploring the role of different paradigms for representing, visualising, and interacting with geospatial data and putting the findings into practice by developing a spatial visual query formulation tool based on the Semantic Web technologies.

ViSPA will approach the geospatial data access problem from knowledge representation and human computer interaction perspectives in a conceptually innovative way by enabling end users to grasp and deal with the complexity from a simplified and high-level perspective.

The PhD candidate will be responsible for undertaking this research project under the supervision of appointed supervisors and will report to the Head of Department.

Duties of the position

- Conduct research on spatial query formulation on knowledge graphs
- Develop a research plan for the PhD dissertation and conduct it accordingly
- Write conference and journal papers under supervision
- Comply with the PhD training program of the Faculty
- Participate in professional communities within areas relevant to the position

Required selection criteria

The PhD-position's main objective is to qualify for work in research positions. The qualification requirement is that you have completed a master's degree or second degree (equivalent to 120 credits) with a strong academic background in Computer Science or equivalent education with a grade of B or better in terms of [NTNU's grading scale](#). If you do not have letter grades from previous studies, you must have an equally good academic foundation. If you are unable to meet these criteria you may be considered only if you can document that you are particularly suitable for education leading to a PhD degree.

The appointment is to be made in accordance with the regulations in force concerning [State Employees and Civil Servants and national guidelines for appointment as PhD, post doctor and research assistant](#).

- Relevant background and experience in the Semantic Web field
- Strong front-end and back-end programming skills and knowledge

Preferred selection criteria

- Experience in the Human Computer Interaction (HCI) field
- Familiarity with the geospatial information systems
- Experience in developing open source software
- Good written and oral English language skills

Personal characteristics

- Enthusiastic and ambitious about research
- Structured and goal-oriented Able to work effectively individually as well as being a good team player
- Able to think critically

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal suitability.

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

PhD candidates are remunerated in code 1017, and are normally remunerated at gross from NOK 479 600 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 period of employment is 3 years without teaching duties or 4 years with teaching duties.

Appointment to a PhD position requires that you are admitted to the PhD programme in Computer Science ([see https://www.ntnu.edu/studies/phcos](https://www.ntnu.edu/studies/phcos)) within three months of employment, and that you participate in an organized PhD programme during the employment period.

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 applications are only evaluated based on the information available on the application deadline. You should ensure that your application shows clearly how your skills and experience meet the criteria which are set out above.

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.

- A cover letter (1 page) explaining your motivation and how your skills and experience relate to the research focuses of the position
- A research proposal (maximum 2 pages) where the candidate proposes an argued direction for the research
- CV with a list of publications or other supporting documents (as proof of the candidates' study and language abilities)
- Relevant transcript of grades, diplomas, and certificates. The documents have to be translated to English unless they are in Norwegian, Danish, Swedish, or English.
- Names and contact information of at least two persons, preferably from academic supervisor(s).
- Applicants from universities outside Norway are kindly requested to send a diploma supplement (for European Master Diplomas outside Norway) or a similar document that describes in detail the study and grading system and the rights for further studies associated with the obtained degree.

General information

A good work environment is characterized by diversity. We encourage qualified candidates to apply, regardless of their gender, functional capacity or cultural background.

The city of Gjøvik has a population of 30 000 and is a town known for its rich music and cultural life. The beautiful nature surrounding the city is ideal for an active outdoor life! The Norwegian welfare state, including healthcare, schools, kindergartens and overall equality, is probably the best of its kind in the world.

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

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.

Information Act (Offentleglova), your name, age, position and municipality may be made public even if you have requested not to have your name entered on the list of applicants.

If you have any questions about the position, please contact **Associate Professor Ahmet Soylu**, telephone +47 40 14 44 65, email ahmet.soylu@ntnu.no. If you have any questions about the recruitment process, please contact Senior Executive Officer HR Stine Terese Ruen Nymoen, e-mail: stine.t.r.nymoen@ntnu.no

Please submit your application electronically via jobbno.no with your CV, diplomas and certificates. Applications submitted elsewhere will not

be considered. Diploma Supplement is required to attach for European Master Diplomas outside Norway. Chinese applicants are required to provide confirmation of Master Diploma from [China Credentials Verification \(CHSI\)](#).

If you are invited for interview you must include certified copies of transcripts and reference letters. Please refer to the application number **2020/12493** when applying.

Application deadline: 10.07.20

NTNU - knowledge for a better world

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

Place of service:

NTNU Campus Gjøvik 2815 Gjøvik (Gjøvik Municipality)