



# UNIVERSITETET I OSLO

**Jobbnorge ID:** 282855

**Deadline:** 8/15/2025

**Website:** <http://www.uio.no/>

**Scope:** Fulltime

**Duration:** Engagement

## Senior Engineer - Systems Developer (1-2 positions)

### About the position

These positions are for three years (with possibilities for extension) and is EU-financed from the Genome Data Infrastructure ([GDI](#)) project and will be associated with the ELIXIR Norway team at the Department of Biosciences (IBV), University of Oslo (UiO). [ELIXIR Norway](#) is the Norwegian national infrastructure for bioinformatics which has funding from the Research Council of Norway. ELIXIR Norway is part of the pan-European infrastructure for bioinformatics, [ELIXIR Europe](#), which has headquarters at the European Bioinformatics Institute, EBI in Hinxton, near Cambridge. The ELIXIR Oslo team has 10 employees and is part of [BiLS](#) (Bioinformatics in Life Sciences), the bioinformatics community at UiO.

Work at ELIXIR Oslo is in particular focused on genomic data and other data types related to genes and proteins. Several projects deal with sensitive human data related to health and disease, while others deal with data related to a variation of species in the biodiversity and pathogen domains. ELIXIR Oslo, together with the other partners, are developing and maintaining systems that allow users to share, find and reuse life science data according to the [FAIR principles](#) (Findable, Accessible, Reusable, and Interoperable).

### You will work with

- The position contributes to the development work undertaken in the context of ELIXIR Norway, and related national and international e-infrastructure projects associated with ELIXIR Norway. One central project focuses on secure archiving and controlled access to human genome datasets and related information in a federated solution.
- The [GDI](#) project develops functionality for use of sensitive human data, both clinical and genomic, towards establishment of the European Health Data Space (EHDS). GDI is a European concerted effort that provides functionalities for efficient infrastructure for genome-scale analyses. The Genome of Europe reference cohort of 1 Million Genomes (1+MG) will be hosted within this infrastructure. The position will also be part of a larger team who develop sharing functions for sensitive data, such as [Federated EGA Norway](#).
- Development and maintenance of new and legacy services according to local or nation-al needs in the context of ELIXIR Norway. This will include some limited DevOps-related work in addition to programming tasks.

### Qualifications

#### Required qualifications:

- Master's degree in computer science or equivalent. Long relevant practical experience from software and system development may compensate for not meeting the formal education requirements.
- Applicants must be proficient in both written and oral English.
- Software development experience from both Python and Java development is required, with in-depth experience from one of these languages.
- Familiarity with microservice-based system architecture.
- Good experience with version control systems like git is a requirement, as well as knowledge on agile/iterative software development methodology.

#### Desired qualifications:

- Development experience with the Go programming language.
- Our system platform is Linux, with extensive use of virtualization technology. Solid knowledge within both of these areas is desirable but not required.
- Working experience with containers, such as Docker (building and management) is strongly desirable.
- Experience from development of distributed systems and relevant technologies is ad-vantageous (i.e. message queueing).
- As we develop e-infrastructure services for the life sciences, basic knowledge within molecular biology/biomedicine would be a plus, but not a requirement.

### Personal skills

- Excellent problem-solving capabilities.
- Must be able to work independently in a structured and self-driven manner and demonstrate good collaborative skills in a cross disciplinary team.

- Motivated in working in an academic setting with development and deployment of infra-structure and software, supporting Life Science research activities.
- Motivation to learn and make use of various cutting-edge technologies is important.
- Personal and relational qualities will be emphasized.

## We offer

- Exciting and meaningful tasks in an organization with an important societal mission, contributing to knowledge development, education, and enlightenment that promote sustainable, fair, and knowledge-based societal development.
- A pleasant and stimulating work environment
- Good [welfare schemes](#).
- Opportunity of up to 1.5 hours a week of [exercise during working hours](#).
- A workplace with good development and career opportunities.
- Membership in the [Statens Pensjonskasse](#), which is one of Norway's best pension schemes with beneficial mortgages and good insurance schemes.
- Salary in position as job Senior Engineer, position code 1181 in salary range NOK from 650 000 - 760 000, depending on competence and experience. From the salary, 2 percent is deducted in statutory contributions to the State Pension Fund.

Read more about the benefits of working in the public sector at [Employer Portal](#).

## Inclusive worklife and diversity at UiO

Inclusion and diversity are a strength. The University of Oslo has a personnel policy objective of achieving a balanced gender composition. Furthermore, we want employees with diverse professional expertise, life experience and perspectives.

If there are qualified applicants with disabilities, employment gaps or immigrant background, we will invite at least one applicant from each of these categories to an interview.

We hope that you will apply for the position.

## How to apply

Your application should include:

- Application letter.
- CV (complete overview of education and work experience)
- Copies of educational certificates, transcript of records and letters for recommendation
- Names and contact details of 2-3 references (names, relation to candidate and telephone number)

Application with attachments must be submitted via our recruitment system Jobbnorge, click "Apply for the position".

When applying for the position, we ask you to retrieve your education results from [Vitnemålsportalen.no](#). If your education results are not available through Vitnemålsportalen, we ask you to upload copies of your transcripts or grades. Please note that all documentation must be in English or a Scandinavian language.

## General information

The best qualified candidates will be invited for interviews.

Applicant lists can be published in accordance with [Norwegian Freedom of Information Act](#) § 25. When you apply for a position with us, your name will appear on the public applicant list. It is possible to request to be excluded from this list. You must justify why you want an exemption from publication and we will then decide whether we can grant your request. If we cannot, you will hear from us.

## Questions about the position

**For questions about the position, please contact:**

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Prof. emeritus Eivind Hovig, +47 93069881, email: [ehovig@uio.no](mailto:ehovig@uio.no)

**For questions regarding the recruitment system, please contact** HR Adviser Nina Holtan, +47 22854424, email: [nina.holtan@mn.uio.no](mailto:nina.holtan@mn.uio.no)

## University of Oslo

**The University of Oslo** is Norway's oldest and highest rated institution of research and education with 26 500 students and 7 200 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

**Department of Biosciences (IBV)** is one of nine departments at the Faculty of Mathematics and Natural Sciences. Research in the department is organised in five sections covering topics within biochemistry, molecular biology, physiology, cell biology, genetics, aquatic biology, toxicology, ecology, and evolutionary biology. The Department also operates Finse research station, the Biological research station in Drøbak and UiO's research vessel. Education across these topics is offered for around 300 bachelor, 170 master, and 75 PhD students. With 48 permanent

professors/associate professors, post-docs, researchers, technical, and administrative personnel, the Department has a total staff of 260 from more than 30 different countries. The Department aims to maintain high international standards within both research and teaching. The new bachelor program in bioscience is the first of its kind to include programming and computational modelling as core elements.

## **Additional information**

### **Place of service:**

Problemveien 7 0313 Oslo (Oslo Municipality)