UNIVERSITETET I OSLO

Jobbnorge ID: 232888
Deadline: 10/17/2022
Website: http://www.uio.no/
Scope: Fulltime
Duration: Temporary

Postdoctoral Research Fellow in machine learning and data science

Job description

Position as Postdoctoral Research Fellow available at the Department of Mathematics.

Starting date no later than April 1st 2023.

The appointment is a fulltime position and is for a period of two years.

No one can be appointed for more than one Postdoctoral Research Fellowship at the University of Oslo.

The postdoctoral position is attached to the Section of Statistics and Data Science at the Department of Mathematics, University of Oslo (UiO). This section consists of 8 full time academic positions, 9 adjunct positions and many PhD-students and post doc's making up a group of more than 30. Statistics at UiO is internationally recognized, with interests spanning a broad range of areas (including machine learning, high-dimensional and big data, nonparametric inference, algorithmic methods / machine learning, Bayesian inference, statistical computing, model selection, time-to-event models, space time models and copula models).

The main focus of this position will be development and use of machine learning techniques towards specific applications, where modelling and prediction of rare events within large, complex and multisource datasets will be central.

The postdoctoral position is partly connected to the PharmaTox Strategic Research Initiative at the Faculty of Mathematics and Natural Sciences, University of Oslo (www.mn.uio.no/farmasi/english/research/groups/pharmatox/). PharmaTox is a multidisciplinary center comprising strong research environments in pharmaceutical biosciences, biology, bioinformatics and statistics. The postdoctoral research fellow will spend part of the time at the Department of Pharmacy. A main topic will be to apply ML methods within a causal inference framework to assess the safety of medications and COVID-19 vaccines for specific groups such as children and pregnant women.

The postdoctoral position is also partly connected to BigInsight (biginsight.no), a center for research-based innovation, funded by the Research Council of Norway. BigInsight produces innovative solutions for key data-driven challenges facing a consortium of private, public and research partners, by developing original statistical and machine learning methodologies. A particular topic of interest will be in fault detection in sensor data and fraud detection in insurance and finance data.

The main purpose of a postdoctoral fellowship is to provide the candidates with enhanced skills to pursue a scientific top position within or beyond academia. To promote a strategic career path, all postdoctoral research fellows are required to submit a professional development plan no later than one month after commencement of the postdoctoral period.

Qualification requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition to be among Europe's leading communities for research, education and innovation. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

- Applicants must hold a degree equivalent to a Norwegian doctoral degree in statistics or in machine learning. Doctoral dissertation must be submitted for evaluation by the closing date. Only applicants with an approved doctoral thesis and public defence are eligible for appointment.
- Fluent oral and written communication skills in English.

The following desirable qualifications will count in the assessment of the applicants:

- Competence and experience with statistical modelling of large, complex data.
- Competence and experience in machine learning and/or causal inference methods.
- Original publications in peer-reviewed scientific journals.

Personal skills

- Ability to work independently as well as in multidisciplinary teams.
- Ability to give and receive constructive scientific criticism.
- Resourceful, structured, and results-oriented.
- High motivation for a research career.

We offer

- Salary NOK 544 400 - 626 300 per year depending on qualifications in position as Postdoctoral Research Fellow (position code 1352).
- Attractive welfare benefits and a generous pension agreement.
- Professionally stimulating working environment.
- Vibrant international academic environment.
- Postdoctoral development programmes.
- Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities.

How to apply

The application must include

- Cover letter (statement of motivation, summarizing scientific work and research interest).
- CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity).
- Copies of educational certificates, academic transcript of records.
- Letters of recommendation.
- A complete list of publications and up to 5 academic works that the applicant wishes to be considered by the evaluation committee.
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number).

The application with attachments must be delivered in our electronic recruiting system. Foreign applicants are advised to attach an explanation of their University's grading system. Please note that all documents should be in English (or a Scandinavian language).

In assessing the applications, special emphasis will be placed on the documented, academic qualifications, as well as the candidates motivation and personal suitability. Interviews with the best qualified candidates will be arranged.

It is expected that the successful candidate will be able to complete the project in the course of the period of employment.

Formal regulations

Please see the guidelines and regulations for appointments to Postdoctoral fellowships at the University of Oslo.

No one can be appointed for more than one Postdoctoral Fellow period at the University of Oslo.

No one can be appointed twice as a Postdoctoral fellow financed with funds from The Research Council of Norway (NFR).

According to the Norwegian Freedom of Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

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.

Contact information

For further information please contact: Geir Storvik, phone: +47 45201667, e-mail: geirs@math.uio.no

For questions regarding Jobbnorge, please contact HR Adviser Ole Rustad, e-mail: ole.rustad@mn.uio.no

About the University of Oslo

The University of Oslo is Norway's oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The Department of Mathematics is part of the Faculty of Mathematics and Natural Sciences at the University of Oslo. The Department is engaged in teaching and research covering a wide spectrum of subjects within mathematics, mechanics and statistics. The research is on theory, methods and applications. The areas represented include: fluid mechanics, biomechanics, statistics and data science, computational mathematics, combinatorics, partial differential equations, stochastics and risk, algebra, geometry, topology, operator algebras, complex analysis and logic.

We have almost 50 persons in permanent academic positions and a large number of post docs and Ph.D. students. We also have an administrative and technical staff. The department represents a leading research environment in mathematical areas in Norway, and has a highly international profile.

Additional information

Place of service:

Moltke Moes vei 35 0851 Oslo (Oslo Municipality)