UNIVERSITETET I OSLO

Jobbnorge ID: 199994
Deadline: 2/28/2021
Website: http://www.uio.no/
Scope: Fulltime
Duration: Fixed Term

Postdoctoral Research Fellow in Particle Physics (CERN research)

Job description

A four year position as Postdoctoral Research fellow in Particle Physics is available at the Department of Physics.

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

The successful candidate is expected to take an active role in teaching at the Department, with an average teaching load of 25% over the four years.

Starting date is no later than October 1. 2021.

More about the position

The new Norwegian centre for CERN research is looking for a motivated and talented postdoctor that can contribute to the next operational period of the Large Hadron Collider (LHC) at CERN starting 2021. Norway is member of the ATLAS experiment at LHC. ATLAS is designed to search for new physics in proton-proton collisions and was key to the discovery of the Higgs boson in 2012. The current research focus of the Oslo group is now on precision measurements of the Higgs boson and searches for new particles such as supersymmetric particles, exotic particles and dark matter candidates.

The successful candidate will work at the heart of LHC research in an international environment at a very exciting time for the LHC experiments with the arrival of the new data from Run 3. It is a great opportunity to acquire cutting-edge physics analysis, computational (e.g. machine learning) and detector development skills in a very interactive and social group.

The candidate is expected to strengthen the group's work on Higgs boson studies and Dark Matter related searches. If the candidate has an interest in statistics and computational science in the direction of machine learning this is a plus.

Postdoctoral fellows who are appointed for a period of four years are expected to acquire basic pedagogical competency in the course of their fellowship period within the duty component of 25 %.

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 physics. 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. Doctoral dissertation must be submitted for evaluation by 1 June, 2021. Only applicants with an approved doctoral thesis and completed defence are eligible for appointment.
- Solid experience in high-energy physics and excellent programming skills is required. It is important that the candidate demonstrate sufficient computing skills to start exploiting early Run-3 data as soon as it is available.
- High-level oral and written English skills are required.

Personal skills

- Excellent teamwork capabilities, social skills and interest in outreach.

We offer

- Salary NOK 526 000 - 608 200 per annum depending on qualifications in position as Postdoctoral Research Fellowship (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, please follow the link "apply for this job". 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).

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.

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.

The University of Oslo has an agreement for all employees, aiming to secure rights to research results a.o.

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

Contact information

Professor Heidi Sandaker, email heidi.sandaker@fys.uio.no

Professor Farid Ould-Saada, email farid.ould-saada@fys.uio.no

Professor Alex Read, email a.l.read@fys.uio.no

For thechnical questions regarding the recruitment system; contact Elin Thoresen, elin.thoresen@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 research at the Department of Physics covers a broad range of subfields within physics and technology: From space research to medical physics. A good proportion of the research is interdisciplinary, and conducted in close cooperation with collaborators in Norway and abroad.

Education and teaching are other essential activities. We offer a broad range of courses, and the Department is involved in several study programmes at bachelor's and master's level. Some of the best lecturers in Norway are amongst our employees, and we are proud of our prizewinning teaching and learning environment. The Department has 200 employees, of which 50 are permanent scientific positions. On a yearly basis 20 students complete their Ph.D. and 50 finish their M.Sc. degree.

Additional information

Place of service:

Blindern 0315 Oslo (Oslo Municipality)