



Postdoctoral Research Fellow within experimental particle physics.

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Postdoctoral Research Fellow within experimental particle physics

There is a vacancy for a postdoctoral research fellow position in experimental particle physics at the Department of Physics and Technology, The University of Bergen. The position is for a fixed-term period of 3 years. The position is financed by a project of GRIEG program grant "Understanding the Early Universe: interplay of theory and collider experiments" in collaboration with the particle theory group at the Department of Physics, University of Warsaw. The position is based in Bergen with a possibility of frequent visits to CERN and the University of Warsaw.

About the project/work tasks:

This project will be carried out within the group for Experimental Particle Physics and its participation in ATLAS experiment at CERN's LHC (Large Hadron Collider). This experiment has participation from several thousand physicists around the world and collects data from proton-proton collisions at extremely high energy. Bergen group has a long tradition in measurements with a purpose to improve our knowledge of the properties of particles and processes as described by the Standard Model of elementary particles, as well as searching for new particles and phenomena that can, for example, explain the existence of Dark Matter. The goal of the grant within which the present position is funded is to contribute to the ultimate construction of a deeper than the Standard Model theory of the elementary interactions that would help to understand the history of the Early Universe .

Bergen group has search for new particles in decays containing tau-leptons, or that have been produced in association with a Higgs-boson decaying to two tau-leptons. This project will concentrate on the search of the Higgs-boson with a decay two tau leptons accompanied by DM particles, with possible contribution to the mono-jet production channel. The goal, in addition to search with ATLAS data, is to determine ultimate sensitivity of the LHC to a broad set of models resulting in mono-Higgs and mono-jet production. This goal will be realised in a close collaboration with the theory group in Warsaw.

Qualifications and personal qualities:

- Applicants must hold a Norwegian PhD or an equivalent degree within experimental particle physics or must have submitted his/her doctoral thesis for assessment prior to the application deadline. It is a condition of employment that the PhD has been awarded.
- Experience from data analysis with ATLAS or CMS experiment is a strong advantage.
- Applicants must be able to work independently and in a structured manner, and have the ability to cooperate with others.
- Applicants must have excellent skills in oral and written English.
- Good command of the Norwegian language is an advantage.

Personal and relational qualities will be emphasized. Research experience, ambitions and potential will also count when evaluating the candidates.

About the position of postdoctoral research fellow:

The postdoctoral position is a fixed term position with the primary objective of qualifying the appointee for work in top academic positions. If the appointee lacks teaching experience, or other relevant qualifications, the employment period may be increased to 4 years. Teaching and other duties will in such cases be added to the position. The position may be extended by up to one year (maximum 4 years in total) if the appointee is granted externally financed research stays abroad. Individuals may not be hired for more than one fixed-term period as a postdoctoral research fellow at the same institution.

The completion of the project proposal for the qualifying work, as well as a progress plan, will be developed in cooperation with the supervisor and head of department.

It is a requirement that the project is completed in the course of the period of employment.

We can offer:

- a good and professionally stimulating working environment
- salary at pay grade 60 (code 1352 / pay range 24, alternative 4) according to the state salary scale upon appointment. This constitutes a gross annual salary of NOK 532 300. Further promotions are made according to length of service. For particularly highly qualified applicants, a higher salary may be considered.
- enrolment in the Norwegian Public Service Pension Fund
- good [welfare benefits](#)

Your application must include:

- a brief account of the applicant's research interests and motivation for applying for the position.
- the names and contact information for two referees. One of these should be the main advisor from the PhD programme.
- CV
- transcripts and diplomas. If you have not yet completed your PhD degree, please submit a statement from your institution confirming that the thesis has been submitted.
- relevant certificates/references
- list of any works of a scientific nature (publication list).

The application and appendices with certified translations into English or a Scandinavian language must be uploaded at JobbNorge

General information:

For further details about the position, please contact professor Anna Lipniacka (Anna.Lipniacka@uib.no) or professor Bjarne Stugu (Bjarne.Stugu@uib.no)

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. Age and gender balance among employees is therefore a goal. It is also a goal to recruit people with immigrant backgrounds. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

We encourage women to apply. If multiple applicants have approximately equivalent qualifications, the rules pertaining to moderate gender quotas shall apply.

The University of Bergen applies the principle of public access to information when recruiting staff for academic positions.

Information about applicants may be made public even if the applicant has asked not to be named on the list of persons who have applied. The applicant must be notified if the request to be omitted is not met.

Further information about our employment process can be found [here](#).

About The University of Bergen (UiB)

The University of Bergen is a renowned educational and research institution, organised into seven faculties and approximately 54 institutes and academic centres. Campus is located in the centre of Bergen with university areas at Nygårdshøyden, Haukeland, Marineholmen, Møllendalsveien and Årstad.

There are seven departments and several centres at Faculty of Mathematics and Natural Sciences. [Read more about the faculty](#) and [departments](#).

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