

Jobbnorge ID: 186944
Deadline: 8/16/2020
Website: <http://www.uis.no/>
Scope: Fulltime
Duration: Fixed Term

Ph.D position in Astronomy, Cosmology and Particle Physics

Job description

The University of Stavanger invites applicants for up to two Ph.D. fellowships in Astronomy, Cosmology and Particle Physics at the Faculty of Science, Department of Mathematics and Physics.

This is a trainee position that will give promising researchers an opportunity for academic development leading to a doctoral degree.

The appointment is for three years with research duties exclusively, or four years with both research and 25% compulsory duties. This will be clarified in the recruitment process.

Up to two applicants may be selected from this vacancy.

The position is financed by the Norwegian "Romforskning" program of the Norwegian Research Council providing funding for basic space research, to:

1. investigate the synergies between gravitational wave detectors and particle physics experiments for tests of particle physics scenarios Beyond the Standard Model (BSM);
2. improve the theoretical predictions on the gravitational wave signatures that emerge in BSM scenarios by applying both analytical and numerical approaches;
3. join the LISA collaboration to design the data analysis pipelines for the reconstruction of gravitational wave signals (mostly stochastic gravitational wave backgrounds) sourced in the early and late Universe.

The appointee will carry out research on at least one of these thematic areas. An ample budget for attendance of conferences and meetings is associated to the position.

The appointee will join the astronomy, cosmology and high energy physics group of the University of Stavanger. In late 2020, the group will include Professor Tomas Brauner, Professor Sigbjørn Hervik, Ass. Professor Aleks Kurkela, Ass. Professor Germano Nardini, Ass. Professor Alex Nielsen, Ass. Professor Alexander Rothkopf, Professor Anders Tranberg, Adj. Ass. Professor Laura Tolos and Adj. Ass. Professor Korinna and around 13 Ph.D. and postdoctoral fellows.

The team working on the three above themes will include Ass. Professor Germano Nardini, Professor Anders Tranberg, Ass. Professor Alex Nielsen and at least three Ph.D. students and a postdoc, including the appointee. Collaboration with the other members of the group and researchers working at renown European and non-European research institutes is foreseen.

Qualification requirements

We are looking for applicants with a strong academic background who have completed a five-year master degree (3+2) in physics or astronomy following a study curriculum with some emphasis on astronomy, cosmology, particle physics and/or gravitational wave physics. The master degree should have preferably been acquired recently. Qualifications that could provide a basis for successfully completing a doctorate will be considered as well.

To be eligible for admission to the doctoral programmes at the University of Stavanger both the grade for your master's thesis and the weighted average grade of your master's degree must individually be equivalent to or better than a B grade.

Applicants with an education from an institution with a different grade scale than A-F should attach a confirmed conversion scale that shows how the grades can be compared with the Norwegian A-F scale. If you finish your education (masters degree) before October 2020 you are also welcome to apply.

Emphasis is also placed on your:

- motivation and potential for research within the field
- ability to work independently and in a team, be innovative and creative
- ability to work structured and handle a heavy workload
- having a good command of both oral and written English

We offer

- varied duties in a large, exciting and socially important organisation

- an ambitious work community which is developing rapidly. We strive to include employees at all levels in strategic decisions and promote an informal atmosphere with a flat organisational structure
- colleague-based guidance programme (NyTi) if teaching is a part of your Ph.D
- salary in accordance with the State Salary Scale, l.pl 17.515, code 1017, NOK 479,600 gross per year with salary development according to seniority in the position
- automatic membership in the [Norwegian Public Service Pension Fund](#), which provides favourable insurance- and retirement benefits
- favourable membership terms at a gym and at the SIS sports club at campus
- employment with an Inclusive Workplace organisation which is committed to reducing sick leave, increasing the proportion of employees with reduced working capacity, and increasing the number of professionally active seniors
- "[Hjem-jobb-hjem](#)" discounted public transport to and from work
- as an employee in Norway, you will have access to an optimal health service, as well as good pensions, generous maternity/paternity leave, and a competitive salary. Nursery places are guaranteed and reasonably priced
- [relocation programme](#) in event of moving to Norway, including support and language courses for spouses

Other information

See "[Regulations concerning terms and conditions of employment for the posts of post-doctoral research fellow and research fellow, research assistant and resident](#)" at the University of Stavanger.

The appointee will be based at the University of Stavanger, with the exception of a stay abroad at a relevant centre of research.

It is a prerequisite that the appointee has a residence which enables him or her to be present at/available to the academic community during ordinary working hours.

The University currently employs few female research fellows within this academic field, and women are therefore particularly encouraged to apply.

The position has been announced in both Norwegian and English. In the case of differences of meaning between the texts, the Norwegian text takes precedence.

Contact information

More information on the position can be obtained from Associate Professor Germano Nardini, e-mail: germano.nardini@uis.no or Head of Department Bjørn H. Auestad, e-mail: bjorn.auestad@uis.no

Information about the appointment procedure can be obtained from HR-consultant Rosa Andrade, e-mail: rekruttering@uis.no.

Application

To apply for this position please follow the link "Apply for this job". Register your application and CV including relevant education and work experience. In your application letter you must show your research interests and motivation to apply for the position.

The following documents must be uploaded as attachments to your application in separate files:

- curriculum vitae, including a list of publications, a list of seminars given at conferences or official meetings, a list of posters presented at conferences or official meetings, a list of the conferences and official meetings attended, and a list of long-stay (more than two weeks) collaboration visits;
- bachelor thesis and certificate/diploma of the bachelor degree (if such a degree is not pertinent in your education, upload a file bachelor.pdf explaining why these documents are unavailable)
- master thesis and certificate/diploma of the master degree (if such a degree is not available, upload a file master.pdf explaining why these documents are unavailable and/or indicating when the degree is expected);
- bachelor's and master's transcripts;
- completed version of the form you can download from <https://dl.dropboxusercontent.com/s/s287wrn1oo7m2db/phdcall-form-to-fill.docx?dl=0>
- other documentation that you consider relevant.

The documentation must be available in either a Scandinavian language or in English. If the total size of the attachments exceeds 30 MB, they must be compressed before upload. Information and documentation to be taken into account in the assessment must be submitted within the application deadline.

In particular

- the candidate shall arrange for two confidential reference letters sent to sent to the Ass.Professor Germano Nardini with the applicant's surname and advertised position in the subject line. Each letter must be sent directly by the signer of the letter before the application deadline.

Please note that information on applicants may be published even if the applicant has requested not to be included in the official list of applicants - see [Section 25 of the Freedom of Information Act](#).

UiS only considers applications and attachments registered in JobbNorge.

UiS - challenge the well-known and explore the unknown

The University of Stavanger (UiS) has about 12,000 students and 1,800 employees. We are the only Norwegian member of the European Consortium of Innovative Universities. The university has high ambitions. We will have an innovative and international profile, and will be a driving force in knowledge development and in the process of societal change. Together with our staff and students, we will challenge the well-known and explore the unknown.

Department of Mathematics and Physics is part of the Faculty of Science and Technology. The department offers study programs at all levels within the areas Mathematics, Statistics and Physics. The department is responsible for all basic tuition in mathematics, physics and statistics at the faculty. There are currently 50 employees including doctoral and postdoctoral fellows, and 100 students at the department.

Additional information

Place of service:

ullandhaug 4036 Stavanger (Stavanger Municipality)