



UNIVERSITETET  
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**Jobbnorge ID:** 159571

**Deadline:** 1/1/2019

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

**Scope:** Fulltime

**Duration:** Fixed Term

## Postdoctoral Research Fellowships in Cosmology, 1-2 positions

### Job description

One or two positions as Postdoctoral Research Fellowships are available at Institute of Theoretical Astrophysics at the University of Oslo

The appointments are full-time positions and are made for a period of up to four years. In the case of a four-year position, 25 % of the time will be devoted to required duties.

### More about the position

One of the two positions is dedicated to an ERC Consolidator project called bits2cosmology, which aims to perform an end-to-end analysis of the Planck LFI, WMAP and SPIDER data with time-domain Gibbs sampling. Specifically, the current position will carry a main responsibility for the SPIDER analysis of the project, and the work will in particular revolve around low-level modeling and analysis of the SPIDER time-ordered data. Previous experience with low-level CMB data analysis and time-ordered data is considered highly beneficial for this position, as are strong computing and programming skills.

The primary goal of the second position is to work towards a comprehensive model of the microwave and sub-millimeter sky. This work will include analysis of multiple publicly available and proprietary data sets, including COMAP, DIRBE, FIRAS, Planck, PASIPHAE, SPIDER, WMAP and many others. Collaboration in large international collaborations is anticipated. Previous experience with CMB or sub-millimeter observations and large-scale data modeling is highly desired for this position.

A generous personal travel/expenses grant of 50 kNOK is available per year. The institute also has access to world-class computing facilities, both in-house and on-campus, that are directly available to the candidate. The cosmology group at the Institute participates heavily in the Planck, SPIDER, COMAP, PASIPHAE and Euclid experiments, and is a member of the LiteBIRD Joint Study group.

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 post-doctoral research fellowships is to qualify researchers for work in top academic positions within their disciplines.

### Qualification requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. 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 astrophysics, statistics, computer science or related fields. Doctoral dissertation must be submitted for evaluation by the closing date. Appointment is dependent on the public defence of the doctoral thesis being approved.
- Fluent oral and written communication skills in English

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions:

<http://www.uio.no/english/about/regulations/personnel/academic/regulations-employment-conditions-postdoc.html>

### We offer

- Salary NOK 515 200 - 597 400 per annum depending on qualifications in position as Postdoctoral Research Fellowship (position code 1352)
- A professionally stimulating working environment
- Attractive [welfare benefits](#) and a generous pension agreement, in addition to Oslo's family-friendly environment with its 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 and letters of recommendation
- The source code of a self-written computer program; a link to a GitHub repository or similar is acceptable
- A complete list of publications
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number). The letters should be sent directly from the references to i.k.wehus@astro.uio.no and h.k.k.eriksen@astro.uio.no.

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).

In assessing the applications, special emphasis will be placed on the documented, academic qualifications, in particular with respect to computing and analysis skills, as well as the candidates motivation and personal suitability. Interviews with the best qualified candidates will be arranged.

## Formal regulations

Please see the [guidelines](#) and [regulations](#) for appointments to Postdoctoral fellowships at the University of Oslo.

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 %.

No one can be appointed as Postdoctoral Fellow for more than one specified period at the same institution.

According to the Norwegian Freedom and 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 etc.

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 Hans Kristian Eriksen, phone number: +47 22 85 44 45, e-mail: h.k.k.eriksen@astro.uio.no or

Professor Ingunn Wehus, e-mail i.k.wehus@astro.uio.no

For technical questions regarding the application system, please contact HR Adviser Elin Thoresen, +47 22 85 71 96, e-mail: 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 Institute of Theoretical Astrophysics** is part of the Faculty of Mathematics and Natural Sciences. It presently has 11 permanent professors/associate professors. The Institute employs some 15-20 postdoctoral and senior research fellows and has of order 15-20 Ph.D. students. The research activity of the Institute of Theoretical Astrophysics is concentrated around solar physics, cosmology and extragalactic astrophysics.

## Additional information

### Place of service:

Problemveien 7 0313 Oslo (Oslo Municipality)