



Jobbnorge-ID: 147097

Søknadsfrist: Closed

Nettside:

Omfang:

Varighet:

Postdoctoral Fellow (3 years) in structure-based hit discovery for antibiotics

At the Faculty of Medicine, Department of Biomedicine in the group of Professor Ruth Brenk (<http://www.uib.no/en/rg/brenk>) a full-time (100 %) position as Postdoctoral Fellow is available for a period of 3 years. The position is part of the project "Structure-based target exploration for the discovery of new leads for antibiotics" financed by the BEDREHELSE programme of The Research Council of Norway.

Project

The main focus of the project will be hit discovery for targets for antibiotics using virtual and fragment-screening. The work will include protein expression and purification, development of binding and kinetic assays, virtual screening, fragment screening using biolayer interferometry (BLI), X-ray crystallography and compound design. The work will be conducted in close collaboration with the medicinal chemistry group from Dr. Prathama S. Mainkar at the Indian Institute of Chemical Technology (<http://www.iictindia.org/staffprofiles/staffprofile.aspx?qry=1868>).

Postdoctoral Fellow

The main objectives for the position are to

- develop assays suitable for fragment screening using biolayer interferometry (BLI)
- conduct fragment screens
- conduct virtual screens
- determine the binding affinities of test compounds
- develop inhibition assays and to determine the inhibition profiles of test compounds
- determine the crystal structures of target-ligand complexes
- design compounds with improved affinities and physico-chemical properties
- supervise master- and PhD students

For further information please contact Ruth Brenk, e-mail: ruth.brenk@uib.no, phone: +47 55 58 60 70.

Qualifications and qualities

- The candidate must hold a PhD-degree within the field of pharmacy, biochemistry, medicinal chemistry, biophysics, molecular biology or a related discipline or have submitted their doctoral dissertation within the specified field for evaluation within the closing date of the application. It is a condition for appointment that the dissertation is approved.
- The candidate must have documented experience in at least one of the following areas:
 - X-ray crystallography of macromolecules
 - Assay development using surface plasmon resonance (SPR) or BLI
 - Fragment screening
- Additional experience in any of the following fields will be an advantage:
 - structure-based ligand design using computational methods
 - recombinant protein expression and purification
 - diffraction data collection at synchrotron beamlines
- Experience in several of the listed areas will also be advantageous.
- A structured approach to work and excellent communication skills and fluency in both written and spoken English are required.
- The candidate must demonstrate a strong commitment for structure-based hit discovery for antibiotics and scientific research in general.
- Personal skills will be emphasized. The candidate must be able to work independently and interactively in a team setting, be motivated and responsible, and also have a great work capacity and enthusiasm for research.
- Prior publication record will be of importance.

The candidate is expected to spend some time in the group of our collaborators abroad.

We can offer

- A good and challenging work environment in the research area of protein-ligand interactions.
- Salary level 57 (code 1352/pay framework 24.1) at present NOK 490 900 gross p.a. on the government salary scale. Further promotion will be after service seniority in the position. A pension contribute of 2 % will be deducted and deposited to the state pension scheme.
- A good pension scheme in the Norwegian Public Service Pension Fund
- Inclusive workplace (IW)
- Good welfare benefits

For more information regarding what the University of Bergen can offer its employees please visit: <http://www.uib.no/en/poa/74243/what-can-university-bergen-offer-its-employees>

For further information about the recruitment process, click [here](#)

About postdoctoral fellowships

In general, the purpose of postdoctoral positions at the University of Bergen is the building of competence by means of further development of research work to a higher level than what is possible within an ordinary PhD program. The main goals of the positions are to qualify the successful candidate for professional top positions.

Applicants shall put forward a proposal for a project for qualifying work. The proposal shall include a progress plan. It is a premise that the selected candidate will complete the project within the stipulated period of employment.
Leaves of absence for other purposes than those laid down by law are normally not granted.

The employee may be assigned up to 25 % compulsory duties in the form of teaching and similar work at the department.

Postdoctoral fellowships are fixed term positions. You cannot be employed as a postdoctoral fellow for more than one fixed term period at the same institution. Also, you cannot be employed in a postdoctoral position if you have previously held this type of position at a different institution in the region.

Recruitment to state employment

State employment shall reflect the multiplicity of the population at large to the highest possible degree. The University of Bergen has therefore adopted a personnel policy objective to ensure that we achieve a balanced age and sex composition and the recruitment of persons of various ethnic backgrounds and persons with disabilities. Persons of different ethnic backgrounds and persons with disabilities are therefore encouraged to apply for the position.

The successful applicant must comply with the guidelines that apply to the position at any time.

The University of Bergen applies the principles of public openness when recruiting staff to scientific positions. Information about the applicant may be made public even though the applicant has requested not to be named in the list of applicants. The applicant will be notified if their request is not respected.

How to apply

You send your application with attachments electronically via "Jobbnorge" by clicking on the button marked "APPLY FOR THIS JOB".

The application must contain:

- a brief letter of application stating your motivation for the position and why you are applying
- witnessed copies of diplomas and relevant certificates (applicants with education from other countries than Norway must enclose witnessed diplomas in both the original language and authorized translations)
- complete list of publications
- publications (pdf) it is important that each of the scholarly works on which the committee should place special emphasis, is attached in its entirety
- two referees (name and contact information)

The applications will be sent electronically to the assessment committee.

Please notice that the applications will be assessed only with the information available in "Jobbnorge" when the deadline expires. It is the applicant's responsibility to ensure that all relevant attachments are submitted by the deadline.

Tilleggsinformasjon

Arbeidssted: