Postdoctoral Research Fellow position

At the Faculty of Medicine, Department of Biomedicine, a full-time (100%) position as Postdoctoral Research Fellow is available for a period of three (3) years.

The position is part of the project "K.G. Jebsen Center for decoding Parkinson's disease - DECODE-PD", financed by Stiftelsen Kristian Gerhard Jebsen. The present postdoctoral research fellow will work in a subproject led by Profs. Aurora Martinez and Charalampos Tzoulis.

About the project/work tasks:

PD is one of the most common age-related neurodegenerative disorders, characterized by progressive death of dopamine-producing cells in the substantia nigra, mitochondrial dysfunction, decline in dopaminergic markers, redox and calcium dysregulation and protein misfolding.

Project goals / work tasks:

- Elucidation of the physiological and pathological mechanisms by mitochondrial dysfunction and dopamine dysregulation contribute to neurodegeneration
- Perform mechanistic studies in cell models (differentiated SHSY5Y, iDopa and iPSC-derived cells) as well as specific cells in brain tissue to explore cell-specific signatures related to Complex I functionality and tyrosine hydroxylase regulation
- Build cell-based assays enabling to screen for and validate targeted therapies, notably towards dysregulation of dopamine synthesis and Complex I deficiency
- Discover and develop mechanistic-based small molecule therapeutics through high-throughput biophysical target-based and phenotypic cell-based screen-assays using > 2K compound libraries including drugs small molecules of diverse structure
- Evaluate the potential of compound hits in structural and functional investigations for repurposing trials and for the development of small molecule therapeutics

Qualifications and personal qualities:

The applicant must hold a Norwegian PhD or an equivalent degree within biochemistry, biomedicine, medicine, pharmacy or similar, or have the doctoral thesis submitted prior to the application deadline. It is a condition of employment that the PhD has been awarded at the latest within 3 months after the deadline for applications.

Special requirements for the position:

- The successful applicant must have proven skills and experience in state-of-the-art molecular and cell biology techniques applied to dopaminergic cell models (SHSY5Y, iDopa and iPSC-derived cells), such as preparation of constructs for transient and permanent expression of targets, qPCR, immunoquantification, live cell imaging and fluorescence microscopy, and techniques to identify protein-protein interactions, notably co-immunoprecipitation and proximity ligation assays. Knowledge on super-resolution microscopy
- Experience on immunofluorescence and immunohistochemistry of tissue sections.
- Previous experience with drug and compound screening and validation of hit compounds will be an advantage.
- The applicant must have good work capacity and enthusiasm for the advertised research project
- Work independently and in a structured manner, and have the ability to cooperate with others. Previous experience with supervision of MSc- students will be an advantage
- The candidate must be fluent in written and oral English. Knowledge of Norwegian is an advantage
- Experience with international collaboration is an advantage

For the application to be processed, the candidate must be affiliated with a different research environment than they were in when they did their PhD.
About the position of postdoctoral research fellow:
The position of postdoctoral research fellow is a fixed-term appointment with the primary objective of qualifying the appointee for work in top academic positions. Postdoctoral fellowships are fixed term positions. You can not be employed as a postdoctoral fellow for more than one fixed term period at the same institution.

Upon appointment, applicants must submit a project proposal for the qualifying work including a work schedule. It is a requirement that the project is completed in the course of the period of employment.

The employee may be assigned required duties in the form of teaching and similar work at the department.

We can offer:
- Exciting development opportunities as part of your role in a strong professional environment
- Salary level 62 (code 1352/pay framework 24.6) at present NOK 563 900 gross p.a., with a degree in Medicine or Dentistry level 63 (code 1352/pay framework 24.7) at present NOK 574 700, with a medical specialization level 65 (code 1352/pay framework 24.9) at present NOK 594 300, gross p.a. on the government salary scale. Further promotion will be after service seniority in the position.
- 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
- Transcripts and diplomas (applicants with education from other countries than Norway must enclose witnessed diplomas in both the original language and authorized translations) and documentation of submitted doctoral thesis
- 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)

General information:
For further information please contact:

Aurora Martinez, e-mail: aurora.martinez@uib.no; phone: +47 55586427.

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

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 Arstad.

There are five departments and seven centres at Faculty of Medicine.

Read More about the faculty and departments.

Jobbnorge-ID: 225751, Søknadsfrist: 22. mai 2022