



Jobbnorge ID: 279884

Deadline: 6/8/2025

Website: <https://www.uib.no/om/84775/ledige-stillinger-ved-uib>

Scope: Fulltime

Duration: Fixed Term

PhD Research Fellow in Computational Chemistry

UiB - Knowledge that shapes society

Through robust and close interaction with the world around us - globally, nationally and locally - we shall be instrumental in building a society based on knowledge, skills and attitudes.

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Video: <https://www.youtube.com/watch?v=oYaThmlq6Kg>

PhD position in Computational Chemistry

At the [Department of Chemistry](#), there is a vacancy for PhD Research Fellow in Computational Chemistry. The position is for a fixed-term period of 3 years with the possibility of a 4th year with career-promoting work (e.g., teaching duties at the department).

The research fellow will take part in the international and highly interactive working environment of the [Computational Biology Unit \(CBU\)](#), a multidisciplinary centre that UiB has established for research and education within the field of bioinformatics.

About the project/work tasks

The project will tightly combine atomistic molecular dynamics (MD) simulations with experimental methods sensitive to atomistic detail (in particular NMR relaxation). The PhD fellow will build a library of high-resolution experimental data of oligosaccharides, against which they will critically assess the current MD models and perform data-driven optimization. The verified models will be used to reveal the conformational ensemble and dynamics of oligosaccharides in the human glycome, in particular those relevant for virus-host interactions.

Qualifications and personal qualities

- Applicants must hold a master's degree or equivalent education in Chemistry, Physics, Bioinformatics, or a similar field. Master students can apply provided they complete their final master exam before 01.08.2025. It is a condition of employment that the master's degree has been awarded.
- Experience with either molecular simulations or NMR experiments is required.
- Experience using MD simulations to study biomacromolecules is an advantage.
- Experience with experimental laboratory work, in particular NMR, for investigating biomacromolecular systems is an advantage.
- Experience with glycans is an advantage.
- Good knowledge of statistical physics is an advantage.
- Applicants must be able to work independently and in a structured manner and demonstrate good collaborative skills.
- Applicants must be proficient in both written and oral English.

Personal and relational qualities will be emphasized. Ambitions and potential for scientific career will be given substantial weight when evaluating the candidates.

Special requirements for the position

The University of Bergen is subjected to the regulation for export control system. The regulation will be applied in the processing of the applications.

About the PhD position

About the PhD Research Fellow position

The fellowship will be for a period of 3 years, with a possible 4th year (contingent on the qualifications of the candidate and the teaching needs of the department) to be decided by the Head of department upon appointment. If a 4th year is granted, one year of career-promoting duties associated with teaching, dissemination, or research infrastructure/services will be distributed over the full employment period, thus corresponding to 25 percent of the time each year.

The employment period may be reduced if you have previously been employed in a qualifying post (e.g. research fellow, research assistant).

About the research training

The PhD Research Fellow must participate in an approved educational programme for a PhD degree within a period of 3 years. The deadline for applying for admission to the PhD programme at The Faculty of Science and Technology is 2 months after the start of position or after the start of the research project that will lead to the PhD degree. It is a condition to satisfy [the enrolment requirements for the PhD programme](#) at the University of Bergen.

We can offer:

- A friendly and professionally stimulating working environment
- A young and result-driven team, with high level of support and excellent cooperation
- Salary as PhD research fellow (code 1017) in the state salary scale. This constitutes a gross annual salary of NOK 540 500. Further increases in salary are made according to length of service in the position.
- Enrolment in the Norwegian Public Service Pension Fund
- Good [welfare benefits](#)

Your application must include

- A brief account of your 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 for your master's (or equivalent) thesis.
- CV
- List of possible peer-reviewed scientific publications
- Transcripts and diplomas showing completion of the bachelor's and master's degrees. If you have not yet completed your master's degree, please submit a statement from your institution confirming the expected date of award of your master's degree. Your master's degree must be documented with transcripts and/or diploma before starting in the position.
- Relevant certificates/references
- Appropriate documentation of proficiency in English (see the English language requirements for PhD admission).

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

General information

For further details on the position, please contact the research group leader Assoc. Prof. Markus Miettinen (markus.miettinen@uib.no, phone +47 48 458 227) or Head of Department Magne Sydnes (magne.sydnes@uib.no).

For HR-related questions contact HR adviser Anna Folgerø (anna.folgero@uib.no).

Diversity is a strength that enables us to solve our tasks even better. UiB therefore needs qualified employees regardless of gender, ethnicity, religion, worldview, disability, sexual orientation, gender identity, gender expression, and age. We encourage applicants with disabilities, immigrant backgrounds, or gaps in their CV to apply. By indicating such circumstances in your application, you may receive favorable consideration. We ensure that at least one qualified applicant from each of these groups is invited for an interview as part of our commitment to inclusivity and equal opportunity.

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.

The successful applicant must comply with the guidelines that apply to the position at all times.

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

Life as a PhD candidate at UiB

Marion Claireaux tells about life and work as a PhD candidate at UiB.

Video: <https://www.youtube.com/watch?v=nrt6VxMeJ4&index=2&list=PLf8ZIYfAO0qjhROTj6SthDbSScg0ISO6G>

About 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 Science and Technology. [Read more about the faculty](#) and [departments](#).

Additional information

Place of service:

Allégaten 41 5007 Bergen (Bergen Municipality)