**UiT The Arctic University of Norway**
**Faculty of Science and Technology - Department of Chemistry**

**PhD Candidate in Applied Computational Chemistry (Enzymatic Catalysis) at the Faculty of Science and Technology, Department of Chemistry, UiT - The Artic University of Norway.**

# PhD Candidate in Applied Computational Chemistry (Enzymatic Catalysis)

At the Department of Chemistry there is a vacancy as a research fellow for applicants who wish to take the degree philosophia doctor (Ph.D.). The position is associated with the research group in computational chemistry. The appointment is for a period of four years.

**This PhD position involves the computational modeling of enzymes and their reaction mechanisms.** The position is part of the MARVAL project: *From unexploited marine biomass to high value products* (http://uit.no/forskning/marval). The PhD candidate will model enzymes involved in biomass conversion. One of the focus areas will be enzymes that can transform marine biomass into bioplastics, a biodegradable polymer that can replace conventional plastics.

Further information about the position is available by contacting **Dr. Kathrin H. Hopmann, Phone: +47 776 23109, E-mail: kathrin.hopmann@uit.no**

**Research area**
The PhD candidate will work on computational modeling of the active sites of enzymes and calculation of possible reaction mechansisms employing quantum chemical methods. The work will be performed in close collaboration with experimental biochemists, and the candidate will also collaborate with researchers and PhD students in other parts of the MARVAL project.

**The position's affiliation**
The position is organized under the Department of Chemistry and will be associated with the Centre for Theoretical and Computational Chemistry (www.ctcc.no). The CTCC is a Norwegian Centre of Excellence, established by the Research Council of Norway in 2007. About 50 scientists, post-doctoral fellows and PhD students in the fields of theoretical and computational chemistry are currently active at the centre. The successful candidate will become part of the National PhD School in Biocatalysis (https://site.uit.no/biocat/).

**Qualification requirements**
The successful applicant must hold a Master's degree or equivalent in Computational or Theoretical Chemistry or equivalent. Candidates with a Master's degree in Biochemistry or equivalent but with a documented solid education in subjects relevant to theoretical/computational chemistry will also be considered. Good academic performances, and a genuine interest and motivation for performing research are essential to qualify for the position. Personal qualifications and suitability will be emphasized. Experience with the computational modelling of biological systems will be considered beneficial.

The successful applicant must fulfill the requirements for admission to the faculty's PhD programme, cf. Regulation for the degree of Philosophiae Doctor (PhD) at the University of Tromsø. In addition, he/she must be able to document **proficiency in English** equivalent to Norwegian Higher Education Entrance Qualification, refer to the website about PhD regulations at UiT.

The PhD position is for a fixed term, with the objective of completion of research training to the level of a doctoral degree. Admission to a PhD programme is a prerequisite for employment, and the programme period starts on commencement of the position. The PhD Candidate shall participate in the faculty's organized research training, and the PhD project shall be completed during the period of employment. Information about the application process for admission to the PhD programme, application form and regulations for the degree of Philosophiae Doctor (PhD) are available at the following address: http://en.uit.no/ansatte/organisasjon/artikkel?p_document_id=167946&p_dimension_id=88131&p_menu=28714

**Working conditions**
The normal period of employment is four years. The nominal length of the PhD programme is three years. The fourth year, distributed as 25 % of each year, shall be used for teaching or other duties for the Department of Chemistry, cf. Guidelines for the research fellow's duties.

The position can be assigned teaching duties in chemistry, at bachelor and/or master's level, dependent on the background of the candidate. Suitability for teaching will therefore be considered in the evaluation.

A shorter period of appointment may be decided when the research fellow has already completed parts of his/her research training programme or when the appointment is based on a previous qualifying position (PhD Candidate, research assistant, or the like) in such a way that the total time used for research training amounts to three years.

Remuneration for the position of PhD Candidate is in accordance with the State salary scale code 1017. A compulsory contribution of 2 % to the Norwegian Public Service Pension Fund will be deducted.

Questions concerning the organisation of the working environment, such as the physical state of the place of employment, health service, possibility for flexible working hours, etc. may be directed to the telephone reference in this announcement.

The University of Tromsø is an IW (Inclusive Workplace) enterprise, and will therefore emphasize making the necessary adaptations to the working conditions for employees with reduced functional ability.

**Assessment of candidates**
The applicants will be assessed by an expert committee. During this assessment process, emphasis will be attached to the applicant's potential for conducting research at PhD level as shown by:

- Master's thesis or equivalent
- Any other academic works
- Relevant research experience
- Academic performance

In addition, consideration may be given to work experience or other activities of significance for the implementation of the PhD studies. Teaching experience and/or qualifications will be considered beneficially. Proficiency in a Scandinavian language will be considered an advantage. **Information and material to be considered during the assessment must be sent to the University by the stipulated deadline.**

The applicants who are assessed as the best qualified may be called to an interview. The interview shall among other things aim to clarify the applicant's personal suitability for the position.

**Application**
The application consists of an application form and required documents. Both are sent electronically via www.jobbnorge.no.

By the application deadline, the following documents must be sent as electronic attachments to the application:

- Letter of application.
- CV (containing a complete overview of education, professional training and work).
- Certified copies of:

- *Diploma and transcripts from your **Bachelor's** degree or equivalent.*
- *Diploma and transcripts from your **Master's** degree or equivalent (Applicants are advised to attach an explanation of their University's grading system).*
- *Diploma supplement for completed degrees.*
- *Documentation of English language proficiency.*

- Master's thesis or equivalent and other works (published or unpublished) which the applicant wishes to be taken into consideration in the assessment.

- References (including contact details) and possible letters of recommendation.

For further information on regulations and working conditions, applicants shall also refer to the *Supplementary regulations for appointment to postdoktor (Postdoctoral Research Rellow), stipendiat (PhD) and vitenskapelig assistent (Research Assistant) positions at the University of Tromsø* and to the *Regulations concerning terms and conditions of employment for posts of postdoktor (Postdoctoral Research Fellow), stipendiat (PhD), vitenskapelig assistent (Research Assistant) and spesialistkandidat (Resident)*.

Personal data given in an application or CV will be processed in accordance with the Act relating to the processing of personal data (the Personal Data Act). In accordance with Section 25 subsection 2 of the Freedom of Information Act, the applicant may request not to be registered on the public list of applicants. However, the University may nevertheless decide that the name of the applicant will be made public. The applicant will receive advance
notification in the event of such publication.

The University of Tromsø has HR policy objectives that emphasize diversity, and therefore encourages qualified applicants to apply regardless of their gender, functional ability and national or ethnic background.

**UNIVERSITY OF TROMSØ**
**9037 Tromsø**
**Norway**

Jobbnorge ID: 138885, Deadline: Closed