

Particular for position as Associate Professor in Applied Mathematics at Norwegian University of Life Sciences

UMB is recognised as a leading international centre of knowledge, focused on higher education and research within environmental and biosciences. Together with other research institutes established at Aas, UMB provides state-of-the-art knowledge based on a broad range of disciplines. A broad range of study programmes are offered at Bachelor, Master and PhD level. Altogether UMB has some 3100 students of which about 370 are PhD students. There are many different nationalities at UMB; the international students make up over 10% of all students at the university. Of the 1050 university staff members, more than half hold scientific positions. UMB is located 35 km south of Oslo. See www.umb.no.

Associate Professor in Applied Mathematics (ref. no 2009/1163)

A position as **Associate Professor in Applied Mathematics** is vacant at the Department of Mathematical Sciences and Technology (IMT), Norwegian University of Life Sciences (UMB).

The Department of Mathematical Sciences and Technology (IMT) has currently 110 employees, approximately 600 students mainly on a 5 year Master of Science in Technology/Engineering and approx. 50 PhD students. The department consists of the Division of Mathematics and Natural Sciences; Civil Engineering and Architecture; Mechanical Engineering and Product Development; Geomatics; Teacher Education in Natural Sciences and Mathematics.

IMT has the responsibility for the teaching of all but one of the regular mathematics courses at UMB. The course curricula consist of courses at the basic, intermediate, and advanced level (MSc and PhD level).

The successful candidate is expected to be able to teach all existing courses at the basic and intermediate level. He/she shall take active part in the development of the course curricula in mathematics. The successful candidate is also expected to teach courses at the MSc and Ph.D level as well as supervising master and PhD students in his /her speciality.

Mathematical modeling plays an important role in the exploration of complex biological systems. UMB has a special need for research competence in advanced mathematics and a specific wish to develop and build up the research in mathematical modeling of biological processes. The research group in Computational Biology (*Bebi*) residing at IMT and Centre for Integrative Genetics (*CIGENE*) residing at the Department of Animal Sciences and Aquaculture are the research units for applications and build up of the competence in this field. In 2007 the Research Council of Norway allocated substantial grants to *Bebi* and *CIGENE* through the so-called eVITA – program. The aim is research and build up of competence in mathematical modeling of biological systems. The time span is minimum 5 years. The research program allocated to *Bebi* at IMT is called ”*eNEURO - modelling, simulation, visualization and databasing of the nervous system*” and is headed by professor

Gaute Einevoll, while the programme allocated to CIGENE is called “*Bridging the gap: disclosure, understanding and exploitation of the genotype-phenotype mapping*” and is headed by professor Stig Omholt.

The successful candidate is expected to play an active role in the development of Computational Biology at UMB. Therefore it is natural that he/she participates scientifically in one of the two eVITA – programs and possible future extensions of these programs.

In order to achieve this goal it is strategically important for UMB to build up and further develop competence in the following branches of mathematics:

- *Finite and infinite dimensional dynamical systems.*
- *Computational mathematics*

Applicants with documented research from one or both of these fields will be given preference. Next, in the assessment of the candidates emphasis will be put on documented research in mathematical modeling of biological systems. Finally, documented research collaboration with scientists in biology, computer science, and physics will be taken into account in the assessment.

The successful candidate must at least have a PhD degree in Mathematics or Applied Mathematics. In the assessment of the applicants emphasis will be put on the scientific output in terms of papers in international journals. The potential for doing independent research as well as having a research network will be taken into account in the assessment. In addition to scientific competence, it is expected that the successful candidate has experience in applying for research grants and can document the capability of carrying out research projects.

In addition to research, emphasis will be put on the ability to teach. If the successful candidate does not have formal qualifications in pedagogics, he/she is obliged to take a course in university pedagogics within 2 years. A successful candidate who has not a command of the Norwegian language is obliged to learn Norwegian within 2 years. Emphasis will also be put on collaboration and communication skills.

The application, together with curriculum vitae, full publication list, copies of degree certificates and transcripts of academic records (all certified) can be submitted via the link: “Apply for this job” on this web page by 15th October 2009.

The applicant should send 3 copies of up to 10 publications judged as the most relevant for the position and important in the applicant’s production. If it is difficult to judge the applicant’s contribution for publications with multiple authors, a short description of the applicant’s contribution must be included.

Printed material which cannot be sent electronically should be sent by regular mail to Norwegian University of Life Sciences, Department of Mathematical Sciences and Technology P.O.Box 5003, N-1432 Ås, Norway, within 15th October, 2009. Reference no: 2009/1163.

Information and material which are to be taken into consideration must be delivered within the posted timelimit. Any references may be provided.

In accordance with personnel policy objectives that the staff shall reflect the composition of the population in general both with respect to gender and cultural diversity, women and persons with a minority ethnic background are particularly encouraged to apply.

UMB wants to recruit more females to science. If two or more applicants are considered to be equally qualified for the position, and at least one of them is a female, a female will be employed.

A successful candidate who has full professorship competence can apply for promotion to full professor.

The annual salary for the position ranges from NOK 438 700 – 518 200 (Norwegian government salary scale 57- 66) depending on qualifications. For specially well qualified candidates a different salary level can be agreed. A compulsory contribution of 2 % is made to the Norwegian State Pension Fund.

For further information please contact [IMT](#), phone +4764965400, e.mail imt@umb.no and Professor John Wyller (phone +47 64 96 54 89, e-mail john.wyller@umb.no).