



Postdoc Position Computational Systems Biology 'Systems Bioinformatics: Computational Modelling Methods' f/m

For 1,0 fte

Vacancy number 1.2008.00278

The VU University in Amsterdam is one of the leading institutions for higher education in Europe. It is part of international science networks and collaborates with many major universities throughout the world. The Faculty of Sciences consists of four departments, with 650 employees including researchers, lecturers, full- and part-time professors. At the Centre for Integrative Bioinformatics (IBIVU; www.ibivu.nl) we have a vacancy for a Postdoc position, the term of the position is about 45 months.

Summary

The IBIVU is a recently founded broad-based Research and Education Centre that is carried by the Faculty of Sciences (FEW) and the Faculty of Earth and Life Sciences (FALW) with strong endorsement from the University Board. The IBIVU is going through a phase of expansion both in staffing and research projects as a result of university and grant-based funding. More information is available at the website (www.ibivu.nl)

Research project

The goal of the project is to develop and implement computer methods for computational modelling of biological systems. This encompasses methods for computational model assembly, execution, analysis and parameter estimation. This means collaboration with several experimental groups which work among others on metabolism in micro-organisms, animals and humans, on plant biology, nutrition and disease processes such as cancer. We also interact with the mathematical modelling group of the Netherlands Institute for Systems Biology. In this way this project is part of the core activity in Dutch systems biology.

The project focuses on developing and implementing computational methods generically useful for computational modelling of biological systems. This encompasses computational model assembly, modification, maintenance, execution, simulation, optimisation, parameter estimation etc. Parameter sensitivity spectrum analysis, ensemble simulation, model-based data analysis techniques, multiscale modelling, 'e-BioScience' approaches and data assimilation methods may be part of the project. Demonstration of the effectiveness of developed methods by application to modelling of some of the example biological systems is desirable.

This Systems Bioinformatics project is funded by The Netherlands Consortium for Systems Biology (NCSB) and in total involves six Dutch bioinformatics centres. In addition, the Systems Bioinformatics group is part of the BioAssist programme of the Netherlands Bioinformatics Centre. The VU group coordinates the six centres involved in the Systems Bioinformatics project. The Postdoc plays an active role in coordination of the project with the Bioinformatic and experimental partners.

Requirements

The candidate for the Postdoc position is expected to have a PhD degree or equivalent in bioinformatics, computational biology, systems biology, or a related field, with a strong background in software development and biological systems modelling and in addition should possess good communication skills.

Appointment

The appointment will be initially for 1 year. If the results are good the appointed period will be prolonged to a total duration of about 45 months. You can visit our website (www.vu.nl/vacatures) for a review of working conditions at the VU.

Salary

The salary is determined according to the collective rules (CAO) of the Dutch universities. Salary scale 10 is applicable (minimum €2.379,- and maximum €3.755,-), based on full-time employment.

Information and application

For more information you can contact Dr. Hans van Beek, e-mail: hans.van.beek@falw.vu.nl,
Phone +31 (0) 20 59 87460.

Applications including a detailed CV with one or two references should be sent before February 2, 2009 to the VU University Amsterdam, Faculty of Sciences- Dept. P&O, attn. Dr. Hans van Beek, De Boelelaan 1083-A, 1081 HV Amsterdam, The Netherlands, or by e-mail: few-vacatures@few.vu.nl. The vacancy number should be mentioned in the e-mail header or at the upper left corner of the letter and envelope.

Any other correspondence in response to this advertisement will not be dealt with.