



Postdoc Position Computational Systems Biology and Fluxomics f/m

For 1.0 fte

Vacancy number: 1.2010.00135

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. We have a vacancy for a Postdoc position located at the Section Medical Genomics of the VU University medical centre in collaboration with the Centre for Integrative Bioinformatics (IBIVU) of the Faculty of Sciences. The term of the position is around 3 years.

The postdoc will be located at the Section Medical Genomics of the Department of Clinical Genetics, which is part of the Neuroscience Campus Amsterdam (<http://www.neurosciencecampus-amsterdam.nl>). The IBIVU is a recently founded Research and Education Centre on bioinformatics (<http://www.ibivu.nl>).

Research project

The goal of the project is to develop, implement and apply computational methods for modelling of biological systems and for fluxomics (i.e. measuring metabolic fluxes). The project entails collaboration with several experimental groups which work among others on metabolism in animals and humans, micro-organisms, on plant biology, nutrition and disease processes such as cancer and neurodegeneration. In this way this project forms a core activity in the Netherlands Consortium for Systems Biology (<http://www.ncsb.nl/>).

The computational methods in this project are applied to simulation, optimisation and parameter estimation for systems biology models and flux measurement methods. Parameter sensitivity spectrum analysis, ensemble simulation, multiscale modelling methods and semantic methods for model synthesis and interoperability 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 NCSB and also embedded in the Netherlands Bioinformatics Centre (<http://www.nbic.nl>). Our group at the VU coordinates the five Dutch bioinformatics groups which participate in the Systems Bioinformatics project. The Postdoc plays an active role in coordination of the project with both the bioinformaticians and the experimental partners.

Tasks

The postdoc will design, select, implement and apply computational methods for computational systems biology and fluxomics.

Requirements

The candidate for this challenging 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.

Further particulars

The initial appointment will be for a period of 1 year. After satisfactory evaluation of the initial appointment, it can be extended for a total duration of maximum 3 years. You can find information about our excellent fringe benefits of employment at www.workingatvu.nl

Salary

The salary will be in accordance with university regulations for academic personnel, and depending on

experience, range from a minimum of € 2.977,- gross per month up to a maximum of € 3.755,- gross per month (salary scale 10) based on a fulltime employment.

Information

For additional information please contact: dr. Hans van Beek

Phone number +31 (0)20 59 87460

E-mail: hans.van.beek@falw.vu.nl

Application

Applicants are requested to write a letter in which they describe their abilities and motivation, accompanied by a curriculum vitae and one or two references. Written applications should be sent before 29 May 2010 to:

VU University Amsterdam

Faculty of Sciences

Department: Personnel and Organization

Attn.: dr. Hans van Beek

De Boelelaan 1083-A

1081 HV Amsterdam,

The Netherlands

It is also possible to apply by e-mail to: few-vacatures@few.vu.nl

Please mention the vacancy number in the e-mail header or at the top of your letter and on the envelope.

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