



## PhD position Computational Epigenetics/Epigenomics (1,0 fte) (211080)

### Job description

Epigenetic modifications, such as DNA methylation, have a central role in development (e.g. cell differentiation) and in the etiology of complex diseases (e.g. cancer). An emerging question is to which extent epigenetic information acquired in one generation can be transmitted to the next generation with phenotypic consequences. You will participate in an innovative project that tries to answer this question in the model plant *Arabidopsis* using a combination of theory, systems genetic analysis, bioinformatics, and next generation sequencing technologies. We are specifically seeking someone interested in developing the computational aspect of this project, with a particular emphasis on the statistical integration of population-level sequence and DNA methylation data.

### Qualifications

You are a university graduate at MSc level in one of the following disciplines: statistics, mathematics, bioinformatics, computer science, theoretical biology, population/evolutionary genetics, physics. A proven ability to perform creative interdisciplinary research is required for this position. We also expect a pro-active attitude and the ability to initiate and execute research lines independently. Excellent communication and reporting skills are necessary. You should be able to write scientific articles and reports (to be proven by your graduation thesis or another comparable report) and be fluent in English language (written and verbal). Only applications with a clear, concrete and personal 'statement of interest' for this project will be considered.

### Organisation

The University of Groningen is one of the largest and oldest research universities of The Netherlands. It ranks among the top 200 universities in the world (The Times World University Rankings, 2010-2011). The Groningen Bioinformatics Centre (GBiC) is one of the leading bioinformatics groups in Europe. It is a major player in the development of modern Systems Biology and Systems Genetics approaches, with

strong international collaborations with many clinical and biological partners in Europe and USA. GBiC is part of the Groningen Biomolecular Sciences and Biotechnology Institute (GBB), which houses 13 different research groups and provides access to state-of-the-art research facilities to more than 100 PhD students and 30 faculty members. Since the beginning of 2011, the GBB is housed in a new life-sciences building.

## Conditions of employment

The University of Groningen offers a salary of € 2,042 gross per month in the first year up to a maximum of € 2,612 gross per month in the final year. First you will get a temporary position of 1.5 years with the perspective of prolongation with another 2.5 years. After the first year, there will be an evaluation on the perspectives of the successful completion of the PhD thesis within the next three years. If these perspectives are poor, the contract may not be renewed. A main objective of the position is the publication of a number of research articles in peer-reviewed scientific journals, which together will form the basis of the thesis leading to the granting of the PhD degree (Dr.) at the University of Groningen.

### How to apply

Please send the letter in English language, including a personal motivation (important!). Your curriculum vitae, the names and addresses of three referees (including telephone number and e-mail address) in just 1 file to [gbic@rug.nl](mailto:gbic@rug.nl). The position will be open until a suitable candidate has been selected.

## Information

For information you can contact:

Dr Frank Johannes, [f.johannes@rug.nl](mailto:f.johannes@rug.nl)

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Groningen Bioinformatics Centre