Radboudumc

Postdoc Computational Biology Genetics and Epigenetics of Development

- Physiology
- Temporary
- 1 year with possible extension
- 36 hours per week
- Scale 10: max. € 57947 gross income per year at full employment (incl. vacation bonus and end of year payments)

Job description

We are looking for a highly motivated and ambitious computational biologist to join our research team that is located at the Radboud Institute for Molecular Life Sciences (RIMLS) in Nijmegen, the Netherlands. Our young and ambitious team of professionals studies the establishment and maintenance of cellular identity during embryonic development and uses zebrafish as a model system.

As the successful applicant you will be employed in the context of an NWO-VIDI grant to study epigenetic signatures during early development in normal and mutant zebrafish. You will actively participate in projects that combine molecular biology and animal physiology to understand tissue specification and maintenance. Practically, you will be responsible for analysis and interpretation of next-generation sequencing data like RNA-sequencing, ChIP-sequencing and ATAC-sequencing. You will have the opportunity to develop novel ideas and work on an independent project that aligns with our research interests.

Profile

We are looking for a person that has:

- A PhD in computational biology, bioinformatics, biostatistics, quantitative biology, computer science, physics or related field or, alternatively, a Master degree with academic experience
- Affinity with biological or biomedical research
- Strong statistical and/or computational skills
- Demonstrable experience with Unix/Linux and shell scripting
- Documented programming experience in a language such as Python or R/Bioconductor.
- Excellent communication skills in English, both verbally and in writing
- Strong analytical skills, a problem solving attitude, and is result-oriented
- The ability to work and interact with others in an energetic and supportive research group

The following are a plus:

- Experience with next-generation sequencing analysis (for RNA-seq, ChIP-seq, ATAC-seq)
- Deposition of your code or software in an open repository like GitHub or Bitbucket.

Organization

The Department where you will be working is among the leading European research departments that use state-of-the-art genomic, proteomic technologies and bioinformatics. Research in the department focuses on stem cells, nuclear pathways in cancer, (epi)genetics aspects of hematopoiesis, proteomics of chromatin and vertebrate development. The department runs two

Next-Generation Sequencers, two nLC-MS/MS Mass Spectrometers, accommodates a bioinformatics team and local computational infrastructure.

Working at Radboudumc
Radboudumc aims to be at the forefront of the development of innovative, sustainable and affordable healthcare. Our mission is '*to have a significant impact on healthcare*'. We believe we can achieve that by providing excellent quality, participatory and personalized healthcare, operational excellence and by working together in sustainable networks. The starting point for this is patients and their quality of life. Throughout all this, patient care, research and education go hand in hand.

To realize our mission, we are searching for colleagues who want to take on this challenge with us; employees who are excellent in their field of expertise and give it their all by pushing boundaries and providing 'that little bit more'. At Radboudumc, you gain the confidence, receive and take responsibility to successfully make these changes. For the best patient care and the best future of healthcare.

Comments and contact information

The cover letter should clearly outline your work experience and your motivation to join, as well as your potential to contribute, to our team. A CV including contact details for at least 2 references should be included.

For more information please contact Dr. Leonie Kamminga, assistant professor, l.kamminga@science.ru.nl or see http://molbio.science.ru.nl.
(Use the email address only for information. For application use the apply button.)