Vacancy – Bioinformatician – Nucleomics Core

VIB

VIB is a non-profit research institute in life sciences. About 1,300 scientists conduct strategic basic research on the molecular mechanisms that are responsible for the functioning of the human body, plants, and microorganisms. Through a close partnership with four Flemish universities – UGent, KU Leuven, University of Antwerp, and Vrije Universiteit Brussel – and a solid funding program, VIB unites the forces of 83 research groups in a single institute. The goal of the research is to extend the boundaries of our knowledge of life. Through its technology transfer activities, VIB translates research results into products for the benefit of consumers and patients and contributes to new economic activity. VIB develops and disseminates a wide range of scientifically substantiated information about all aspects of biotechnology. More information: www.vib.be

VIB Nucleomics Core

In order to provide research groups with early and expert access to state-of-the-art technologies, VIB has incepted a number of Core Facilities, of which VIB Nucleomics Core is one. VIB Nucleomics Core, based in Leuven (Belgium), provides an assortment of fee-based services to address biological questions in the transcriptomics and genomics fields. Our customer base consists of both VIB and non-VIB scientists throughout Europe. Key applications are *gene expression analysis* using microarray technology and Next Generation RNA sequencing, *whole genome sequencing*, *amplicon sequencing*, *ChIP-seq*, *RIP-seq*, *genome mapping*, and more. The Affymetrix microarray, Illumina sequencing, Roche 454 sequencing, Life Technologies PGM sequencing, Nanostring nCounter, and BioNanoGenomics Irys platforms are the main platforms that are being used to facilitate these types of experiments. Bioinformatics services are an integral part of the Nucleomics Core service package. To guarantee an excellent service we are searching for a bioinformatician to strengthen our group. More info on: www.nucleomics.be

Job description/responsibilities

- Carry out data analysis projects on a day-to-day basis.
- Develop and maintain automated procedures (in-house written web tools for data quality assessment and data preprocessing) to guarantee quality of in-house produced data.
- Design, write or improve analysis pipelines for sequencing data and data generated by new technologies. Currently pipelines have been built for identification and evaluation of gene expression signatures, RNA sequencing, variant calling, genome assembly and genome mapping.
- Deliver results to customers and provide additional explanation when necessary.
- Assist customers with publication by providing informative figures and material & methods sections and with data submission to public databases (e.g. GEO).
- Consultation with customers regarding experimental set-up.
- Attendance of relevant courses/trainings and conferences.

Profile

- Ph.D. degree in science (bioinformatics/statistics/biology/biochemistry/biomedicine/genomics).
- Basic knowledge of life sciences (i.e. genetics and genomics) is essential.
- Experience with next-generation sequencing data analysis.
- Strong knowledge of bioinformatics (open-source) tools (such as SAMtools, Bowtie, TopHat, …) and databases in genomics research (e.g. Ensembl/NCBI).
- Knowledge of relational databases (MySQL/Oracle) and common scripting languages (e.g. R, Perl, …).
- Familiar with both Windows and Linux operating systems.
- Excellent communication and interpersonal skills.
- Team player.

Contact?

If you are interested please send your CV, motivation letter and contact details of two references to peter.verhasselt@vib.be.