

RVE Beeldvorming & Laboratoria
Vacaturenummer V19.0050
Geplaats op: 1-2-2019
Reageren tot 15-02-2019
Beroepsgroep: Onderzoek & Wetenschap



Postdoc position in bioinformatics, metagenomics and microbial WGS

Description of department:

The Department of Medical Microbiology (Maastricht University Medical Centre+) is looking for a postdoc in the computational analyses of metagenome and microbial WGS data.

The Maastricht UMC+ is an exciting, interdisciplinary university medical center with excellent facilities and leading research groups in, amongst others, systems biology (MACsBio), molecular imaging (M4I), (meta)genomics, next-generation sequencing and molecular epidemiology. The Department of Medical Microbiology has a strong focus on the study of infectious diseases, antimicrobial resistance, molecular typing and the human microbiome using WGS and metagenomics data. The lab has on-site automated sample processing as well as next-generation sequencing facilities.

Our research group has strong links with clinical departments (e.g. gastroenterology, pulmonology and pediatrics) within the Maastricht UMC+ as well as many (inter)national collaborations with academic and industrial partners within the context of multiple (inter)national consortia, including the Top Institute Food and Nutrition (TIFN), NWO-Carbohydrate Competence Center, Joint Programme Initiatives HDHL Intestinal Microbiomics and the Interreg i-4-1health project.

Job description:

The candidate will be responsible for:

- Development, evaluating, comparing and applying bioinformatics based NGS; data-analysis pipelines, algorithms and annotation tools for a variety of research and diagnostic projects
- Informing on the design and implementation of new features for sequencing data analysis and storage of sequencing data
- Co-supervision of PhD students and interns
- Developing new research ideas and (co)-applying for grants
- Processing and quality control of WGS / metagenomics data
- Comprehensive analysis of (largely) sequence data sets from a variety of platforms
- Automation of data-analysis pipelines and algorithms
- Participating in teaching of (under)graduate students

Function requirements:

We offer a challenging position within a dynamic and stimulating research environment and ask for a highly motivated, enthusiastic and pro-active team-player with:

- A PhD in bioinformatics, computational biology, human microbiota, microbial ecology or equivalent;
- Experience in computational bioinformatics and/or biostatistics within an NGS setting (data assemblage, analysis and annotation);

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- Practical knowledge of NGS algorithms and available resources for microbiological bioinformatics;
- Strong programming skills in C/C++, Java, Perl, or Python;
- Experience in statistical computing environments such as R;
- Understanding of human disease biology and/or microbiology;
- Ability to prioritize and balance competing demands;
- Experience in machine learning and handling of multi-omics data, including metabolomics, is a plus.

Appointment:

It concerns a temporary appointment for specific work of 3 years for an average of 36 hours per week in accordance with art. 2.4.3 of the Cao umc.

Working conditions:

The Cao university medical centres (umc) is applicable to this function.

We offer:

- End of year bonus of 8,3% of your gross yearly salary;
- Good pension plan from ABP;
- The possibility to have a collective insurance for, among others, health insurance (umc) and work disability insurance (Loyalis);
- Cao à la Carte, which for instance includes a bicycle arrangement and sports subscription;
- Monthly buildup of personal development budget;
- Various in company trainings and the possibility for development through e-learning.

Salary:

Depending on education and experience, you will be offered a suitable salary in accordance with the Cao umc.

Information:

For more information regarding this function, the application procedure or other questions you can contact the recruitment office. Available every workday on phone number: 043-387 59 77 or per email: solliciteren.wervingselectie@mumc.nl

More general information about the terms of employment and working at the Maastricht UMC+ is available on www.werkenbijmumc.nl.

For this listing is a simultaneous internal and external recruitment, for which internal candidates have priority.

We request you to apply digitally via www.werkenbijmumc.nl before 15-02-2019.

Online screening, for example via search engines and social networks, can be part of the application procedure.

Applications submitted through recruitment agencies will not be considered.