



WETENSCHAPPELIJK INSTITUUT
VOLKSGEZONDHEID
INSTITUT SCIENTIFIQUE
DE SANTÉ PUBLIQUE

Bioinformatician

Reference: RP-886

The WIV-ISP

The Scientific Institute of Public Health (WIV-ISP) provides support for public health policy through scientific research, expert opinions and divisional tasks. On the basis of scientific research, we formulate recommendations and solutions for a proactive health policy at the Belgian, European and international levels; assess the status of health (indicators) within a certified quality framework; and develop advanced solutions for the diagnosis, prevention and treatment of current and emerging diseases. Recently, we started developing a new NGS & bioinformatics platform to facilitate the diagnosis, surveillance and control of potential harmful organisms such as pathogens and GMOs; and to ameliorate public health genomics by integrating NGS into the public health sector.

*The WIV-ISP is therefore looking for **3 bioinformatics researchers**.*

Your function

You will work in a multidisciplinary environment under the supervision of senior scientists in bioinformatics and molecular biology in the service 'Platform Biotechnology and Molecular Biology', where you will implement and develop new algorithms and methods that aim at the integrative analysis of NGS data. More specifically, you will:

- be part of a small bioinformatics team that works closely together to develop specialized pipelines for the analysis of NGS data (especially whole genome sequencing);
- collaborate with and assist wetlab scientists in the design, analysis and interpretation of NGS experiments;
- search for solutions to manage, process and analyse large volumes of 'big data';
- contribute towards developing standardized practices for the use of NGS & bioinformatics in a public health setting.

Your profile

- MSc with a specialization track in bioinformatics or equivalent through experience
- High proficiency in scripting languages such as Perl and Python
- Familiarity with working on the Linux command line
- General understanding of statistics
- Basic insight of (micro)biology and genomics
- English language proficiency
- A team player with excellent interpersonal communication skills but able to handle difficult tasks independently
- Solution-oriented and strong strategic analytical; problem-solving skills (creative, critical, and open-minded)

Complementary strengths: working experience in bioinformatics, with NGS data (quality control, read mapping, variant detection, *de novo* assembly...), with High-Performance-Computing (SGE, PBS...) and with statistical/mathematical packages (Matlab, R, SAS, SPSS...); knowledge of relational databases (MySQL...) and web servers (Apache...); knowledge of Dutch and/or French; strong mathematical background.

We offer

- A challenging and fascinating project in a fast evolving domain
- A knowledge-intensive position in a renown scientific institute that operates at an international level
- The possibility to impact public health policy regarding NGS & bioinformatics
- A young enthusiastic team of colleagues
- Gross monthly salary of 2932 – 3500 euro (depending on expertise level)
- Advantages: insurances, flexible hours in a 38-hour working week, reimbursement of public transport...
- A total duration of the research project of 3 years

Interested?

More information about the WIV-ISP and/or the NGS & bioinformatics platform, contact:

- Stefaan Vernaeve (Jobcenter): +32 (0)2 6425016 - stefaan.vernaeve@wiv-isp.be
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Send your application via our website (www.wiv-isp.be/jobs) before the 31st of May.