



PhD Student in Bioinformatics

The Leiden University Medical Center is a modern university medical centre for research, instruction and patient care with a high quality profile and a strong scientific orientation. The Department for Parasitology is looking for an ambitious doctorate student in bioinformatics for a project aimed at developing novel algorithms for data integration and the analysis and visualization of mass spectrometry data in quantitative, spatially and temporally resolved proteomics.

■ The Center for Proteomics and Metabolomics employs a diverse group of scientists and technical staff and houses some 25 state-of-the-art mass spectrometers, sample preparation robots and high-end liquid chromatography systems for high-throughput analyses.



The Center is uniquely equipped with several Fourier-transform mass spectrometers, including the new dynamically harmonized analyser cell (left) dramatically increasing resolving power.

■ The Center applies proteomic and metabolomic technologies at the research

frontier together with partners within the LUMC and Leiden University as well as at other universities, both in the Netherlands and abroad.

■ You will work with experienced clinical and biological researchers, bioinformaticians and computer scientists in developing and applying novel algorithms for the analysis of liquid chromatography mass spectrometry data in proteomics, methods for quantitative proteomics, spatiotemporal proteomics and integrate proteomics in larger systems biology approaches.

■ You have a strong theoretical background in a field such as bioinformatics, algorithm development or mathematical statistics and a keen interest in working in an interdisciplinary biological and clinical research environment. You have significant programming experience on different platforms using languages such as C/C++, Java, Python, Perl and/or R. Experience with “-omics” or other big data is a plus, as is a basic familiarity with analytical chemistry techniques such as liquid chromatography and mass spectrometry.

■ A detailed job description can be found at www.lumc.nl/vacancies. For further information regarding this position, please contact Dr Magnus Palmblad, e-mail n.m.palmblad@lumc.nl



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