

PostDoc Plant Genome Engineering m/v, Leiden

The position

The Human Genetics department of the LUMC and the Institute Biology of the Leiden University offers a Postdoc position to study genome engineering in plants. The overarching aim of the research program led by Profs M. Tijsterman and P. Hooykaas is to understand and exploit DNA repair and maintenance mechanisms, i.e. to work towards more efficient and safer genome editing and transgenesis in crop species. The plant *Arabidopsis thaliana* will be used as a model system, but the research team also uses other genetic systems such as *C. elegans*, mouse and human cells. State-of-the-art molecular biology techniques (such as CRISPR/Cas9) and genomic approaches (NGS) are used in this genetically-oriented research program. You will thus work in a highly motivated and multidisciplinary team of researchers studying various aspects of genome stability and genome engineering. The research takes place in collaboration with a multinational world-leading (Agro-biotech) company.

Your profile

You should have a Master's PhD degree or equivalent in biology or related studies. Experimental experience with model plants will be a distinct advantage, as well as affinity with next generation sequencing (or other genomics) technology. A flexible work approach and excellent written and oral communication skills (in English) are essential, as well as the ability to work effectively within an international team. Above all, you are enthusiastic, ambitious and result driven.

Working at the LUMC/IBL

The LUMC is a center for medical innovation that aims to improve patient care through leading international research. So as to also provide our patients with a safe and friendly environment, we need doctors, medical care specialists, support staff and academic researchers.

The Department of Human Genetics is a broadly oriented research department with focus on the (epi)genomic contribution to inherited and acquired diseases. The Department consists of twenty self-contained research groups that perform research in 4 different themes.

The Institute of Biology Leiden (IBL) is an internationally oriented institute for research and education in biology and is part of the Faculty of Science at Leiden University. At the IBL, the research is aimed towards understanding and exploiting the roles of DNA repair mechanisms in current and future genome engineering strategies, with a special focus on plant biotechnology and crop development. Your workstation will be at the IBL.

More information

The job description can also be found soon at www.lumc.nl/vacancies. You may also contact Prof.dr. Marcel Tijsterman, department of Human Genetics, e-mail: m.tijsterman@lumc.nl

For this position, a motivation letter, CV, and at least two references are requested. The application procedure will include one or more interviews. In addition, candidates will be asked to give a presentation.