

ImplantSens

European Training Network for development of implantable biosensors

Early stage researcher position at DirectSens GmbH, Vienna, Austria

ESR8: Switchable carbohydrate dehydrogenases

The fellow will design and engineer carbohydrate dehydrogenases that are suitable biocomponents for implantable biosensors. The tasks in this project include creation of gene libraries, screening assays for improved variants, recombinant protein expression and purification and detailed biochemical and electrochemical enzyme characterization.

Planned Secondments:

- INSERM Bordeaux - Biototoxicity and biocompatibility studies.
- CSIC - Institute of Catalysis Madrid - Covalent immobilization of redox enzymes to electrodes.
- National University of Galway - Redox mediator synthesis.

Employment: The fellow is employed in a full-time 3-year contract based on the applicable Austrian collective agreement. Salary follows the ETN rules. The fellow will be expected to comply with the admission requirements to study for a PhD and will be enrolled in a doctoral programme of BOKU – University of Natural Resources and Life Sciences, Vienna (<https://boku.ac.at/en/doktoratszentrum>), that is located in the same building complex as DirectSens.

About the Employer

DirectSens (www.directsens.com) is an innovative biotech company based in Vienna, Austria, focusing on bioelectrochemical sensor systems for the detection of carbohydrates in medical and industrial applications. The innovative, patented biosensor architecture enables the detection of sugars like glucose or lactose in highest precision and reliability.

The labs are located in Muthgasse 11 in Vienna, Austria, regularly named best city to live in. A successful applicant will work in excellently equipped laboratories of DirectSens with access to all core facilities of Vienna Institute of Biotechnology (VIBT) (<https://boku.ac.at/en/wissenschaftliche-initiativen/vibt/core-facilities>).



ImplantSens has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement no. 183006