

University of Natural Resources and Life Sciences Vienna – responsibility for Humans and Nature. We work for the sustainable use and protection of natural resources.



The Department of Nanobiotechnology, Institute of Biologically inspired materials is currently seeking

Postdoctoral Research Associate

(Reference code: 117)

Extent of employment: 40 Hours per Week

Duration of employment: 01st of December 2017, limited to 30th of November 2023

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1 lit. b, €3.626,60

Responsibilities

- You will work on exciting topics combining colloidal science and microbiology. The immediate project concerns the study of the colloidal forces that drive bacterial aggregation and early stage biofilm formation, primarily at oil interfaces. Familiarity with existing microbiology and colloidal techniques such as bacterial culture, optical microscopy and wettability measurements is a must for this research. However, a main part of the work is to apply and to develop new techniques to study the colloidal interactions of microbes with interfaces, in particular liquid interfaces, which relate to the wettability of single cells, as well as nanoparticle and polymer interactions with biofilms. Our lab has e.g. developed holographic and freeze-facture electron microscopy to study colloidal properties and interactions, and you are expected to further develop and appropriately apply those techniques to bacterial aggregation, surface attachment and movement.
- You are additionally expected to write research proposals to further expand this area within the institute
- You are expected to co-supervise master and PhD students. You will also manage part of the institute and department infrastructure within your areas of expertise
- Assisting in teaching (up to 3h/week) is part of the contract
- The project and position is designed for an up to 6-year (minimum 3-year) commitment
- The language at the work place is English, which is also possible for teaching assignments

Required skills and qualifications

- The applicant must have a completed PhD within the area of proposed work, e.g. Microbiology / Biomaterials / Food science (biotechnology) / Colloidal science (Physics)
- General familiarity with the techniques you are expected to use
- The applicant is therefore required to have a strong background in (micro)biology / biotechnology with a good understanding of colloidal science/physics. Candidates that can document this combination are strongly preferred
- Good command of scientific writing in English

Desirable skills and qualifications

- Applicants who have already worked on colloidal interactions of biological systems are of special interest
- Experience with optical and electron microscopy, cryo-preparation techniques, biofilm characterization pendant drop, contact angle and/or microfluidics is desired
- Experience of working in a multi-disciplinary laboratory and in multi-disciplinary research projects is of interest, since the position requires interaction with diverse disciplines within and outside the institute
- Experience in supervision or a suitable personality for supervision of master and PhD students is important
- Documented experience of high level scientific writing is excepted
- Good presentation skills are expected

- The adaptable ability to co-manage projects is important
- German language skills and good cultural adaptability are advantages
- On the personal level social competence, an open and inclusive personality, independent thinking and attitude are all useful qualities

Applications can be submitted until: 02nd of November 2017

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

Please send your job application to Personnel department, University of Natural Resources and Life Sciences, 1190 Vienna, Peter-Jordan-Straße 70; E-Mail: kerstin.buchmueller@boku.ac.at. (Reference code: 117)

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

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