



The Institute of Macromolecular Chemistry in the faculty of Chemistry and Institute for Functional Genome Research of Microorganisms in the faculty of Biology of Heinrich-Heine-University Düsseldorf is looking for

2 Postdoctoral Researchers

(100 %, pay grade 13 TV-L)

The employment is initially limited for a period of three years. It is a qualification position in the sense of the Act of Academic Fixed-Term Contract (Wissenschaftszeitvertragsgesetz – Wiss-ZeitVG), which is to promote the scientific qualification of the employee.

We are seeking two highly motivated Postdoctoral Research Scientist to join Prof. Dr. Laura Hartmann's (position #1) and Prof. Dr. Johannes Hegemann's (position #2) group at Heinrich-Heine-University Düsseldorf.

Pathogens interact with a multitude of glycans rather than with a single isolated glycan, generating different outcomes depending on the glycan ensemble. To study the effects and potentially synergisms/antagonisms of an ensemble of glycans in host-pathogen interactions and infection processes, we need to develop and utilize new expertise and new tools. Therefore, we bring together scientists from different disciplines – chemistry, biology, virology, infectiology and immunology – to study the role(s) of glycan ensembles in adhesion and invasion processes of bacteria and viruses, not only looking at single glycans but at combinations and assemblies of different types of glycans.

Within this project, you will work with an enthusiastic, interdisciplinary team of chemists and biologists and have access to state-of-the-art chemical, biochemical and biophysical laboratory facilities on site. The goal is to establish and publish first proof-of-concept results to support the formation of a research consortium and an accompanying grant proposal. We envision to facilitate the development of the postdoctoral researcher towards independent principal investigator/group leader within the consortium. The position therefore aims at excellent researchers, who are poised for an academic career.

Your tasks:

- Synthesis and characterization of glycan-functionalized macromolecules and polymers (#1)
- Analysis of glycan-functionalized macromolecules in bacterial adhesion studies (#2)
- Writing of scientific publications
- Project management of the scientific work
- Support in writing the grant proposal
- Participation in teaching

Our requirements:

- A highly successful Ph.D. (Dr. rer. nat.) in Chemistry, Biology or in a related subject
- A strong background in the synthesis of macromolecules, polymers and/or glycans is required (#1)
- A strong background in working with facultative or obligate intracellular pathogenic bacteria (#2)

- Readiness to work in an interdisciplinary team
- Fluency (oral and written) in English
- Previous experience working as a postdoctoral researcher is preferred
- Initiative character, creativity, communication and presentation skills, result orientation and analytical skills
- Ability to work independently and as a team player

Our offer:

- Flexible working hours and various opportunities to reconcile work and private life
- Limited for 3 years with possible longer-term prospects
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD). The pay scale grouping will be, depending on the personal qualification of the applicant, up to pay grade 13 TV-L.

In principle, the employment can also take place part-time, if no compelling official reasons are opposed in an individual case. Heinrich Heine University Düsseldorf aims at increasing the percentage of employed women. Applications from women will therefore be given preference in cases of equal aptitude, ability and professional achievements unless there are exceptional reasons for choosing another applicant. Applications from suitably qualified severely disabled persons or disabled persons regarded as being of equal status according to Book IX of the German Social Code (SGB – Soziales Gesetzbuch) are encouraged.

Your contact person in case of questions is Laura Hartmann; email: laura.hartmann@hhu.de; phone number: +49-211-8110360.

Please submit your application documents (CV including publication list and supporting statement. The supporting statement must explain how you meet each of the selection criteria for the post using examples of your skills and experience) citing **reference number 127.20-3.1** until **14.09.2020**

preferably by email to:

Michaela.Kitza@hhu.de

or in writing to:

**Heine-University Düsseldorf
Mathematisch-Naturwissenschaftliche Fakultät
Institut für Organische Chemie
und Makromolekulare Chemie,
Lehrstuhl für Makromolekulare Chemie/
Geb. 26.33.00.42.
Prof. Dr. Laura Hartmann
Universitätsstr. 1, D-40225 Düsseldorf**



Please do not submit application materials in folders and be sure to send copies only, as documents will not be returned (they will be destroyed after the selection procedure has been completed).