

The Faculty of Medicine at Heinrich Heine University Düsseldorf invites applications for the temporary position of

**Junior Professor (W1)  
in Modelling and Simulation of Chemical Senses**

at the C. und O. Vogt Institute of Brain Research (Chairman: Univ.-Prof. Dr. Katrin Amunts) in collaboration with the Institute for Advanced Simulation, Computational Biomedicine (IAS-5) (Chairman: Univ.-Prof. Dr. Paolo Carloni) and the Institute for Neuroscience and Medicine, Computational Biomedicine (INM-9), Forschungszentrum Jülich

in accordance with the Jülich model for a fixed term of 5 years.

The C. & O. Vogt-Institute of Brain Research pursues functional neuroanatomical research following a systemic approach. Post-mortem and in-vivo procedures are used to understand the relation between brain structure, brain function and ultimately the behaviour of healthy human beings, but in particular also of patients with neurological and psychiatric diseases.

The Institute for Advanced Simulations, Computational Biomedicine (IAS-5), develops and applies molecular simulations based on high-performance computing to predict the structure, dynamics and function of biological systems in order to understand the molecular origin of diseases and chemical senses.

The junior professorship is supported by the foundation „Ernesto Illy“, Trieste, Italy. Research collaborations with the foundation are expected.

The Heinrich Heine University searches for applicants with experience in the field of multi-scale molecular simulations of chemical sensory perception, who can broadly cover the methodology associated with this topic, in particular with regard to the description of structural properties of receptors and various functional principles of signal transduction in the nervous system.

An extensive publication record in internationally renowned specialized journals is expected. Collaborations with national and international partners as well as the successful acquisition of competitive third-party funding are desirable. Experience in university teaching and involvement in university self-government are a plus. International research experience will be an advantage. The junior professorship does not involve duties in patient care.

Applicants need to have completed scientific studies or studies of human medicine with Ph.D. and experience in biomolecular simulation sciences.

Conditions for employment are, in addition to general administrative conditions in accordance with § 36 of the North Rhine-Westphalia University Act (Gesetz über die Hochschulen des Landes Nordrhein-Westfalen), an aptitude for teaching, exceptional competence in research, and additional scientific achievements.

Female candidates are encouraged to apply; they will 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 Legal Code (SGB – Soziales Gesetzbuch) are encouraged.

Disabled applicants will be given preferential consideration in the case of equal aptitude.

Heinrich Heine University Düsseldorf offers a Dual Career Service and is a member of the Rhineland Dual Career Network (*Dual Career Netzwerk Rheinland*). Further information can be found under [www.dualcareer-rheinland.de](http://www.dualcareer-rheinland.de).

Applications comprising all relevant documents (for further information please see <http://www.medizin.hhu.de/akademische-verfahren/berufungen/informationen-bewerber/informationen-fuer-bewerberinnen-und-bewerber.html>) must be sent in electronic form as PDF (max. 15 MB) within 4 weeks of publication of this announcement to Professor Joachim Windolf MD, Dean of the Faculty of Medicine at Heinrich Heine University Düsseldorf, to the following email address: [berufungsverfahren@med.uni-duesseldorf.de](mailto:berufungsverfahren@med.uni-duesseldorf.de).