



Job announcement No. 20/2015

The Helmholtz Centre for Infection Research (HZI) and the Braunschweig Integrated Centre of Systems Biology (BRICS) offers a position as

PhD student in Mathematical Biology

at the Department of Systems Immunology. This position is offered in the context of a Human Frontier Science Program (HFSP) research project on multiscale mathematical modelling of the dynamics of antibody optimisation in germinal centres and of the immunological synapse.

You will be embedded in a strong team of modellers headed by Michael Meyer-Hermann with expertise in a wide range of quantitative modelling methods, including spatio-temporal techniques and application to a large range of biological problems (www.systems-immunology.de). You will benefit from an environment with long-standing experience in germinal centre modelling. You are expected to actively shape the research with new ideas and will be supported by strong team of experimental collaborators including

**Michael Dustin (Oxford UK),
Gabriel Victora (Cambridge MA USA), and
Carola Vinuesa (Canberra Australia).**

This team will generate quantitative data on the immunological synapse, cell dynamics in germinal centres and inter-germinal centre information processing.

The successful candidate will be educated in one of the following disciplines:

Theoretical Biology, Mathematical Biology, Computational Biology, Physics, Mathematics,
or other quantitative sciences.

Severely disabled applicants will be favoured if equally qualified.

Starting date: As soon as possible (initial appointment for 3 years)
Probation period: 6 months
Published on: 11.05.2015
Closing date: 30.06.2015 (subject to prolongation if no suitable candidate was identified)

Online Application: Please submit your application in our online application tool at <https://hzi.opencampus.net/> (after registration choose "Application HZI Jobs" and select job number **20/2015**).

The HZI is a research centre under the roof of the Helmholtz Society, which is a world leading and powerful institution funding basic and applied research in natural sciences. HZI is narrowly connected to the Technical University of Braunschweig and the University of Hannover and is, thus, embedded in a dense environment of fundamental research in Biology and Immunology. The HZI has proven in the past to provide excellent support for the appointed scientists in order to promote their career.

For further information please refer to www.systems-immunology.de or contact Prof. Dr. Michael Meyer-Hermann by phone +49(0)531/6181-5400 or by e-mail michael.meyer-hermann@helmholtz-hzi.de.