

The Center for Modelling and Simulation in the Biosciences (BIOMS), Heidelberg, Germany, is offering several positions for **Postdoctoral Scientists** for the period **January 2017- December 2018**



The research of the center (www.bioms.de) is promoting the use of modeling and simulation in the biosciences and is integrated in the network BIOQUANT (www.bioquant.uni-heidelberg.de), the latter including live cell imaging research and technology platforms. BIOMS is a collaboratory of Heidelberg University, the German Cancer Research Center (DKFZ), the Heidelberg Institute for Theoretical Studies (HITS), the European Molecular Biology Laboratory (EMBL) and the Max-Planck Institute (MPI) for Medical Research.

The **scientific program of Bioms** focusses on modeling

- biomechanics/biochemistry interactions on cellular and systems level
- transport processes and biochemical reactions in signaling networks and metabolisms
- information processing of signals on the cellular level
- the development of biological structures and functionality on molecular and systems level

The open positions are primarily geared towards young scientists and limited to a maximum duration of 1-2 years. The postdoctoral scientists are expected to cooperate with one of the teams within BIOMS network, including experimentalists.

BIOMS is particularly interested in cooperation in modelling and simulations of

- influences of environmental factors on cellular processes and on the functions of cells and cell systems,
- biochemistry and biophysics of cell movement,
- dynamics of cell populations in particular of the immunsystem in connection with inflammation.
- biomolecular processes relevant for the dynamics of SIRS and CARS.

Applications should be submitted electronically in by **January 7th, 2017** and **sent to** bioms@iwr.uni-heidelberg.de (BIOMS coordinators Prof. Willi Jäger and Prof. Ursula Kummer, Interdisciplinary Center for Scientific Computing)

Required documents (in one single pdf-file, please): scientific CV, certificate of PhD, PhD thesis in digital version, list of publications, survey on the previous research (1 page max.) and planned future research in particular a sketch of the research project during the stay as BIOMS Postdoc (2 pages max.), information on cooperation partner(s) in the participating institutions of BIOMS.