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Faculty of Natural Sciences
Institute of Applied Mathematics and Statistics
Department of Mathematics, in particular
Modelling of Complex Biological Systems

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Postdoc Positions in Computational Drug Cardiotoxicity Research

The Institute of Applied Mathematics and Statistics is seeking to appoint a postdoc (full-time for 3 years with the option of prolongation) in the research area of computational drug cardiotoxicity testing. The institute is well linked to pharmaceutical research institutions (both academic and industrial), involved in the organization of the 2017 annual meeting of the Safety Pharmacology Society, and a member of the Living Heart Project by Dassault Systemes.

The appointee will undertake innovative research at the institute and contribute to further its international standing by high quality publications in leading research journals and at national/international conferences. The appointee is expected to attract external funding to support major activity in collaboration with other Universities or organisations. Further duties include the participation in the teaching, supervision, assessment and examination of students of the university.

The successful applicant will have a PhD in mathematics or statistics and a proven track record and strong research potential in one or several of the following areas

- bifurcation, multiple time scale and chaos analysis of medium/large scale ODE systems
- FEM analysis of PDE systems with COMSOL, Simulia or similar software
- bifurcation theory and pattern analysis of PDEs
- data assimilation into PDE systems
- statistical risk estimation
- computational cardiology
- PK/PD modelling

Applications are invited via email to philipp.kuegler@uni-hohenheim.de until the position is filled and should include a CV, a list of publications and the nomination of two potential referees.

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