



The Independent Junior Research Group in the DFG Emmy Noether Programme

Simulation and optimal control of the dynamics of multibody systems in biomechanics and robotics

at the Faculty of Mechanical and Process Engineering of the University of Kaiserslautern, Germany has one open

research position, postdoc

(TV-L 13). The position is available immediately for two years with a possible extension by another two years and offer the possibility for scientific qualification.

Subject

Research topics of the group are situated in the field of computational mechanics and applied mathematics with focus on the simulation of human motion (everyday movements and sports) and robot dynamics as well as the optimisation and optimal control of their dynamics. Thereby, the further development of corresponding numerical methods is likewise important as the modelling of the nonlinear systems.

Qualification

Highly motivated applicants with qualifications in engineering, mathematics, physics, computer science or similar fields are invited. Profound knowledge in dynamics, numerical methods and programming, and language skills in English and German are desirable.

Note that applicants with children are welcome and part time work is generally possible. Severely disabled applicants will be given preferential consideration in the event of equal qualification (please enclose evidence). The University of Kaiserslautern emphatically invites qualified women to apply.

Interested candidates should send their application with the usual documents (CV, degree certificates, short summary of research interests, possibly references and publication list) preferably via email in pdf-format to leyendecker@rhrk.uni-kl.de.