

Open position:

PhD student in applied mathematics (modeling and simulation in nano-technology)

The Wolfgang Pauli Institute, University of Vienna, Austria, is looking for a PhD student to work in the field of the mathematical modeling and simulation of nano-sensors.

This position is part of the WWTF (Wiener Wissenschafts-, Forschungs- und Technologiefonds; Viennese Science and Technology Fund) high-potential project *Mathematics and Nanosensors*.

The goal is to develop the mathematical models and simulations tools to enable the theoretical understanding of a certain type of gas sensor. This is a very timely topic and we collaborate with leading researchers in this field.

The mathematical modeling is centered around self-consistent models based on the Boltzmann transport equation, other transport equations, and stochastic partial differential equations.

Requirements: A master's degree in (applied) mathematics. The successful candidate should have an excellent background in applied mathematics, partial differential equations, and/or the numerics of partial differential equations. Programming skills (Matlab, Mathematica) and a good background in physics are desirable.

Salary: The PhD position is funded according to the FWF salary guidelines "FWF Personalkostensätze für DoktorandIn neu" available at <http://www.fwf.ac.at/de/projects/personalkostensaetze.html>. The position is limited to three years with a possible extension. Funding for conference visits etc. is available. The working language is German or English.

Inquiries and applications: The usual documents (CV, degree certificates, references, and a letter of motivation) should be sent – preferably by email – to the project leader: Dr. Clemens Heitzinger, Wolfgang Pauli Institute c/o Department of Mathematics, University of Vienna, Nordbergstrasse 15, A-1090 Vienna, Austria; email: Clemens (dot) Heitzinger (at) univie (dot) ac (dot) at.

Websites: <http://www.WPI.ac.at/>, <http://Clemens.Heitzinger.name/>, http://www.wwtf.at/projects/research_projects/details/index.php?PKEY=1038_DE_0.

Applications will be accepted until the position is filled.

Candidates must already be authorized to work in Austria.

No agencies!