

We announce a Ph.D. position in the area 'Computational Astrophysics' at the University of Vienna, Austria, funded by the Austrian Science Fund (FWF) for an initial period of 2 years with possible extension for at least a third year.

The successful applicant (m/f/d) will work at the research platform MMM "Mathematics-Magnetism-Materials" (mmm.univie.ac.at) c/o Fak. Mathematik Univ. Wien, as a member of the ACORE group (<https://acore.univie.ac.at/>) on numerical methods and computer simulations for magnetohydrodynamics of the solar surface, in particular on developing the ANTARes code.

The successful applicant is expected to

- Develop and implement new numerical methods for Computational (Magneto) Hydro Dynamics, e.g. Operator splitting methods and (symplectic) time integrators,
- Apply them in large-scale, highly parallelized simulations of the solar surface,
- Visualize and interpret the results

Candidates interested in this position hold a master's degree in applied mathematics, computational sciences, computational physics or a master's degree in (astro)physics with focus on numerical mathematics and scientific computing. Experience in numerical modelling and programming skills in either C/C++ or Fortran are expected.

The candidate should be eligible for a doctoral study in natural sciences/mathematics at the University of Vienna.

Candidates must already be authorized to work in the EU.
The application by e-mail contains the following attachments:

- a) 1/2 page motivation letter
- b) 1 page CV, with a report on university credits
- c) a proof of language skills, if not native speakers of English or German
- d) a summary of research work (including publications)
- e) names of two scientists willing to write a recommendation letter

Applications are sent to the PI of the project at othmar@othmar-koch.org

Applications are welcome until the position is filled.

Othmar Koch (Wolfgang Pauli Institute Vienna),
Friedrich Kupka (Univ. Appl. Sciences Technikum Wien & WPI), and
Norbert Mauser (MMM c/o Fak. Mathematik Univ. Wien).