

Postdoc

Ecole/Institution/Société:

University of Cologne, Germany / Cologne

Discipline:

Applied Mathematics, Computational Sciences

Type d'emploi::

Full-time

Date de publication:

2022-03-12

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech

Postdoc Position in Scientific Computing (f/m/d) Department of Mathematics and Computer Science

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

Prof. Gregor Gassner (www.mi.uni-koeln.de/NumSim/) invites applications for a postdoc position in scientific computing.

YOUR TASKS

- Research and teaching in an international team
- Construction, development and analysis of numerical methods
- Extension and development of the open source simulation code Trixi.jl (Julia Language)
- Participation at international workshops/conferences
- Possible application areas are, e.g., fluid dynamics, plasma dynamics, weather/climate modeling, space physics, astrophysics, multi-physics coupling, Euler/ Navier-Stokes equations, shallow water equations, magnetohydrodynamics, turbulence, shock waves,
- Possible topics are, e.g., high-order methods, Discontinuous Galerkin methods, Scientific Machine Learning, efficient time integration, entropy stability and positivity, high performance computing,

YOUR PROFILE

- Excellent PhD thesis in applied math/numerics/scientific computing or related fields
- Publications in an international journal/participation at conferences is desirable
- Experience in development and design of numerical simulation software
- Programming languages, e.g., Julia, Fortran, C/C++ or Python
- Expertise in numerical modeling with PDEs
- Experience and expertise in the area of Scientific Machine Learning desirable
- Knowledge of German language (for teaching) is a plus

WE OFFER YOU

- a diverse and fair working environment

- support in reconciling work and family life
- flexible working time models, full-time positions suitable for job sharing
- extensive advanced training opportunities
- occupational health management offers
- local transport ticket at a discount for UoC employees
- opportunity for remote work

The position is to be filled for a fixed term until 31st of March 2024, with options for extension of the contract afterwards. If the necessary prerequisites required by tariff regulations as well as the sought-after personal qualifications are met, the salary will correspond to the pay grade 13 as specified in the States' Tariff Agreement (TVL).

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz - LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

If you have any questions, please contact ggassner@uni-koeln.de

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