



Postdoc Position in Scientific Computing/HPC (f/m/d)

Center for Data and Simulation Science (CDS)

We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The Center for Data and Simulation Science (CDS) is looking for a Postdoc (f/m/d) in the area of Scientific Computing/HPC in the group of Professor Dr.-Ing. Gregor Gassner (<https://www.mi.uni-koeln.de/NumSim/>). The CDS is a central scientific institution and one of the interfaculty research centers of the University of Cologne. In the CDS, scientists from different faculties work on research problems in data and simulation science. For more information about the CDS, see <https://www.cds.uni-koeln.de>.

YOUR TASKS

- » Research and teaching in an international team
- » Extension/Implementation within a parallel Discontinuous Galerkin simulation software
- » Porting a parallel CPU code to GPU systems
- » Participation at international workshops and conferences
- » Working on the project ADAPTEX within a BMBF funded research collaboration
- » Connecting the DG code to the parallel AMR library t8code

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, in particular with experience in HPC
- » Programming languages, e.g., Julia, Fortran, C/C++
- » Expertise in the area of numerical methods for compressible fluid dynamics and hyperbolic PDEs (e.g. Discontinuous Galerkin method and/or Finite Volume methods)
- » Expertise in the area of GPU computing/development desirable
- » Very good command in spoken and written English

WE OFFER

- » a diverse and fair working environment
- » support in reconciling work and family life
- » flexible working time models
- » extensive advanced training opportunities
- » occupational health management offers
- » local transport ticket at a discount for university-employees
- » opportunity for remote work

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.

The position is available from 01.05.2023 on a full-time basis (39,83 hours per week). It is limited until 31.10.2025. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

Please apply online with proof of the sought-after qualification without photo under: <https://jobportal.uni-koeln.de>. The reference number is Wiss2301-02. The application deadline is 10.02.2023. If you have any questions, please contact Prof. Dr.-Ing. Gregor Gassner (ggassner@uni-koeln.de).