

“Expression of Interest” for hosting Marie Skłodowska-Curie Postdoctoral Fellowships in Germany

Institutions interested in hosting postdoctoral fellows within the Marie Skłodowska-Curie Postdoctoral Fellowships programme should use this template. Host institutions should be located in Germany.

1. Valid for the following MSCA-PF Call¹:

Please tick:

2021

2022

2. Interested host institution:

TU Chemnitz

3. Institute/Department:

Chair of Scientific Computing, Department of Mathematics
Website (Hyperlink): www.tu-chemnitz.de/mathematik/wire/

4. Contact person (name and e-mail address):

Prof. Dr. Martin Stoll Dphil (Oxon)
martin.stoll@math.tu-chemnitz.de

¹ MSCA Postdoctoral Fellowships are selected on the basis of annual calls for proposals. Forthcoming and open calls for proposals can be found on the [Funding & tender opportunities Portal](#) of the European Commission.

5. Project idea/position (scientific requirements, topic, discipline):

Rough outline of idea/position:

I am professor of scientific computing with a particular focus on machine learning and data science. I develop efficient computational tools for graph-based learning, network science, tensor methods, and large-scale optimization. I am happy to host excellent researchers moving into these fields or experienced candidates with a focus on efficient and robust numerical schemes in data science. Potential topics are

- Structured kernel methods and iterative solvers
- Graph Neural Networks
- Preconditioning for neural networks
- Multilayer networks
- Urban Data Science
- Tumour modeling via phase field simulations
- Differential equations on networks
- Physics informed learning
- Tensor methods for Neural Networks
- Gaussian processes and efficient numerical methods

Please tick:

- Life Sciences
- Natural Sciences
- Engineering Sciences
- Social Sciences and Humanities