“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 Call**:  
   - Please tick:  
     - [ ] 2021  
     - [x] 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/](http://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

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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](https://ec.europa.eu/programmes/horizon2020/en/opportunities) 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

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