

## “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<sup>1</sup>:

Please tick:

X 2022

X 2023

### 2. Interested host institution:

Frankfurt University of Applied Sciences (FRA-UAS)

Name of EU liaison officer (EU-Referent/in), if applicable: Dr. Lyudmila Lyubenova

[lyubenova@fit.fra-uas.de](mailto:lyubenova@fit.fra-uas.de)

### 3. Institute/Department:

Department of Computer Science and Engineering

Website (Hyperlink): <https://www.frankfurt-university.de/steinhauser>

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

Prof. Martin Steinhauser

[martin.steinhauser@fb2.fra-uas.de](mailto:martin.steinhauser@fb2.fra-uas.de)

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

Topics: Multiscale Materials Modeling and Simulation | High-Performance and Parallel Computing | Monte-Carlo and Molecular Dynamics Simulation | Shock Wave Physics | Numerical Method Development | Modeling and Simulation of Material Failure under Shock and Impact | Simulation of Biomembranes and Macromolecules

In order to work with me scientifically in basic and/or applied research, you need to be willing to work with computer code in C or C++, write your own code and adopt existing codes to the needs of the research project. I am offering topics in the area of high-performance computing with applications in a broad range of scientific disciplines such as physical chemistry, biology, Shock wave physics, polymer physics and engineering. Also, numerical method development is part of my interdisciplinary

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<sup>1</sup> 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.

Template - Marie Skłodowska-Curie Postdoctoral Fellowships in Germany

oriented research. Please have a look at my website above with publications and scientific project examples from previous endeavors before applying.

Please tick:

Life Sciences

X Natural Sciences

X Engineering Sciences

Social Sciences and Humanities