

## Marie Skłodowska-Curie PostDoc Positions in Germany

### “Expression of Interest” for hosting Fellows

This template should be used by institutions interested in hosting postdoctoral fellows within the Marie Skłodowska-Curie Individual Fellowship programme. Host institutions should be located in Germany.

#### 1. Valid for the following MSCA-IF Calls<sup>1</sup>:

<input type="checkbox"/> 2018	<input checked="" type="checkbox"/> 2019	<input checked="" type="checkbox"/> 2020
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#### 2. Interested host institution:

Technische Universität Darmstadt  
Karolinenplatz 5  
64289 Darmstadt  
Germany

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

#### 3. Institute/Department:

Technische Universität Darmstadt  
Ernst-Berl-Institut für Technische- und Makromolekulare Chemie

##### **Macromolecular Chemistry - Smart Membranes**

Alarich-Weiss-Straße 4  
64287 Darmstadt  
Germany

Website (Hyperlink): [https://www.chemie.tu-darmstadt.de/brunsen/ak\\_brunsen/research\\_group\\_brunsen/index.en.jsp](https://www.chemie.tu-darmstadt.de/brunsen/ak_brunsen/research_group_brunsen/index.en.jsp)

[www.smart-membranes.de](http://www.smart-membranes.de)

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

Prof. Dr. Annette Andrieu-Brunsen  
[andrieu-brunsen@smartmem.tu-darmstadt.de](mailto:andrieu-brunsen@smartmem.tu-darmstadt.de)

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<sup>1</sup> MSCA Individual Fellowships are selected on the basis of annual calls for proposals. Forthcoming and open calls for proposals can be found on the [Participant Portal](#) of the European Commission under “Funding Opportunities” and “Calls/H2020”.

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

Rough outline of idea/position:

The Smart Membranes group at TU-Darmstadt is always looking for highly motivated team members advancing our research portfolio.

Our research interests focuses on nanopore design to program bioinspired and adaptive transport. (Polymer) functionalization of spatially confined nanopores, nanopore wetting and charge control, innovative nanoporous material architecture design as well as automated design procedures are the key elements for this research. Based on this expertise we develop model systems, and solve challenges in the context of water management, energy conversion and monitoring. Our long term vision is to close the performance gap of transport control abilities between natural and technological nanopores / membranes allowing gated, selective, directed and active transport in three dimensional complex hierarchical systems.

For further details please have a look at our research strategy and our research projects. <https://www.smart-membranes.de/>

If you have an idea how to complement the research of our Smart Membranes group in the context of TU-Darmstadt with a postdoctoral project we are happy to support and host you as a Marie Skłodowska-Curie PostDoc fellow. We are looking forward hearing from you!

Please tick:

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

## 6. Deadline<sup>2</sup> for considering interests by postdoctoral applicants:

Interested postdoctoral applicants can contact us any time. We ask that applicants contact us as early as possible in order to plan and support the project in the best possible way (no later than three months before the deadline of the call including all relevant documents and a project exposée).

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<sup>2</sup> Please consider that the preparation of a Marie Skłodowska-Curie proposal requires some time. Fellow and supervisor have to agree on a project and training opportunities for the fellow.