

## 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 Call<sup>1</sup>:

2020

#### 2. Interested host institution:

Name of EU liaison officer (EU-Referent/in):

Dr. Birgit Bittmann-Hennes  
Institut fuer Verbundwerkstoffe GmbH  
Erwin-Schroedinger Str. Geb. 58  
67663 Kaiserslautern  
Germany

Phone: +49 631 2017 427  
E-Mail: [birgit.bittmann@ivw.uni-kl.de](mailto:birgit.bittmann@ivw.uni-kl.de)

#### 3. Institute/Department:

Institut fuer Verbundwerkstoffe GmbH  
Erwin-Schroedinger Str. Geb. 58  
67663 Kaiserslautern  
Germany

<https://www.ivw.uni-kl.de/en/home>

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

Dr. David May  
Phone: +49 631 2017 400  
E-Mail: [david.may@ivw.uni-kl.de](mailto:david.may@ivw.uni-kl.de) or

Dr.-Ing. Bernd Wetzel  
Phone: +49 631 2017 119  
E-Mail: [bernd.wetzel@ivw.uni-kl.de](mailto:bernd.wetzel@ivw.uni-kl.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 [Funding & tender opportunities Portal](#) of the European Commission.

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

Rough outline of idea/position:

We are looking for a highly motivated person to support our research in the field of bio-based reactive thermoplastics to be used in liquid composite molding (LCM) processes. In LCM processes a fiber structure is impregnated with a low-viscosity resin system via overpressure and/or vacuum. Reactive thermoplastics can be a key technology allowing combination of the material- and process-related advantages of thermoplastics for LCM, if fundamental relationships between processes, the resulting structure and properties are understood. Striving for high sustainability of our composites we focus on renewable resources as alternatives to conventional finite precursors such as caprolactam which polymerizes to polyamide. In this context we are looking for a highly skilled and motivated person to support our research.

Your profile:

- Interest in polymer composites, lightweight construction and related topics
- high motivation, initiative and ability to work in a team
- independent working method
- very good communication and organisational skills
- very good knowledge of written and spoken English
- Doctoral degree in chemistry, materials science, mechanical engineering, aerospace engineering, physics or comparable disciplines with an above-average level of achievement
- profound knowledge in the field of reactive resin systems and their modification in terms of processing and structural formation behavior (rheology, curing kinetics, crystallization etc.)
- preferably, but not necessarily experienced with reactive thermoplastics / bio-based polymers / LCM process technologies

We offer flexible working hours, a varied further training program, a wide range of sports, joint leisure events, health days, and company integration management.

Applicants with children are welcome. Qualified women are strongly encouraged to apply. Severely handicapped persons with equal aptitude will be given preferential consideration.

Please tick:

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

## 6. Deadline<sup>2</sup> for considering interests by post-doctoral applicants:

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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.