

## Marie Skłodowska-Curie Post-doc Positions in Germany

### “Expression of Interest” for hosting Fellows

This template should be used by institutions interested in hosting post-doctoral 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 checked="" type="checkbox"/> 2017	<input checked="" type="checkbox"/> 2019
<input checked="" type="checkbox"/> 2018	<input checked="" type="checkbox"/> 2020

#### 2. Interested host institution:

Friedrich-Alexander-Universität Erlangen-Nürnberg

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

#### 3. Institute/Department:

Experimental Renal and Cardiovascular Research  
Department of Nephropathology, Institute of Pathology

Website (Hyperlink): <http://www.nephropathologie.uk-erlangen.de/en/ag-engel-exp-renal-and-cardiovascular-research/>

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

Prof. Felix B. Engel  
felix.engel@uk-erlangen.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:

My laboratory has a variety of interests. Currently, we are mainly interested in 3 research areas:

1) Non-centrosomal MTOCs. A subset of cells translocates their microtubule organization center to a non-centrosomal location when they differentiate. We have recently demonstrated in eLife that this is the reason why mammalian cardiomyocytes stop to proliferate after birth rendering the heart incapable of regeneration. In contrast cardiomyocytes of regenerative species maintain their centrosomal MTOC. Thus, we are currently investigating the mechanisms controlling the establishment on non centrosomal MTOCs in cardiomyocytes and skeletal muscle. In addition, we would be very interested in new lab members with experience in other cell types that establish non centrosomal MTOCs upon differentiation (e.g. neurons).

2) My lab has over 20 years' experience in heart regeneration. We work on cardiomyocyte proliferation as well as on cardiac tissue engineering. Currently, we work especially on 3D printing approaches/inks to engineer cardiac tissues.

3) Finally, we are interested in studying heart development focusing on trabeculation in zebrafish.

Please tick:

(according to [scientific subject areas](#), defined by the German Research Foundation)

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

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

Any time

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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.