

## 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"/> 2019	<input checked="" type="checkbox"/> 2021
<input checked="" type="checkbox"/> 2020	<input type="checkbox"/>

#### 2. Interested host institution:

TU Chemnitz

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

#### 3. Institute/Department:

Technische Universität Chemnitz  
Faculty of Electrical Engineering and Information Technology  
Chair of Digital Signal Processing and Circuit Technology  
Prof. Dr.-Ing. Gangolf Hirtz

Website (Hyperlink): <https://www.tu-chemnitz.de/etit/dst/professur/index.php.en>

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

Roman Seidel

roman.seidel@etit.tu-chemnitz.de

---

<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:

All European countries are facing the problem of a steadily ageing society. This trend is jointly connected with a higher demand for technical assistance systems, which can support elderly people in their daily living. In order to monitor the health status of a person, the determination of its behaviour is a central element. Conventional systems with body-worn devices are uncomfortable for the person who wears such a system. In contrast to that, contact-less optical methods based on image processing do not share this problem.

One main goal of this work is a consistent, time-dependent fusion of sensor data of elderly people in a given indoor environment. The connections with related research fields are essential.

You should bring the following requirements:

- Master's degree in computer science, electrical engineering, biomedical engineering or a close related discipline
- Good knowledge in the fields of computer vision and image processing
- Knowledge in the field machine learning advantageous
- Experience in at least one of a programming language (e.g. C++, Python, Matlab)
- Excellent analysis skills and an analytical mind-set, as well as excellent communication skills, including written
- An ability to work independently and as a member of a research team
- Ability to review and engage with interdisciplinary studies
- English language proficiency. Basic knowledge of German advantageous

Please tick:

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

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

31.01.2019
------------

---

<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.