To be held simultaneously with the position of **Director of the Fraunhofer Institute for Non-Destructive Testing IZFP**

Saarland University is a campus university in the south-west of Germany with around 17,000 students, a distinct international focus and a strong research profile. The Fraunhofer Institute for Non-Destructive Testing is an internationally respected R&D institution that is specialized in the development of innovative methods and systems for non-destructive testing, monitoring, evaluation and analysis. Since 1988, Saarland University and the Fraunhofer IZFP have been cooperating, making them the most comprehensive research and development institute in the field of non-destructive testing and analysis. The Institute has a leading role in coordination with the Fraunhofer Society and is working towards an increase in the proportion of women working in academic teaching and research.

**Vacancy**

To apply for this position, please submit your application by no later than September 2020.

**Requirements**

To be suitable for the above-mentioned position, you should have:

- A university degree, doctorate or habilitation in an engineering science or related field.
- A proven track record of research, teaching and management responsibilities.
- Experience in leading research institution or industrial research unit.
- A sufficient degree of disability of at least 50% on the German disability rating scale.

**Job Responsibilities**

The successful candidate must have a proven track record in one or more of the following fields:

- Creating and characterizing (micro)sensors
- Electronic systems for driving and extracting data from sensors and sensor arrays
- Sensor modelling and model-based and/or adaptive signal processing
- Sonar signal processing based on machine learning or other methods of artificial intelligence
- Stream processing and/or IoT engines
- Sensor system integration including testing and calibration
- Sensor networks and the use of distributed processing methods
- System implementation and application of sensor technologies in complex systems and processes
- Systems engineering across the entire product life cycle (from raw materials and product development to recycling).

**Application Process**

Submit your application online via Saarland University’s online applications portal:

- You will be required to upload your completed application documents as a single PDF file (max. size: 10 MB).
- Please include the following documents with your application:
  - A personal statement (addressed to the Dean of the Faculty of Natural Science and Technology)
  - Relevant core scientific and engineering topics and applications which interest you.
  - Teaching duties and research history
  - A complete list of publications
  - A brief description of your research and development projects across a variety of fields, as well as expertise in boosting the efficiency of development processes, in technology utilization and in teaching, ideally in the fields of instrumentation and measurement as well as signal processing.

The appointment will be made in accordance with the general provisions of German public sector employment law. In addition to a university degree and doctorate in an engineering science or related field, candidates should demonstrate that they have experience in and an aptitude for academic teaching. They must also demonstrate an excellent track record in research, ideally in the fields of instrumentation and measurement as well as signal processing.

**Contact**

[Director of the Fraunhofer Institute for Non-Destructive Testing IZFP](mailto:praesident@fraunhofer.de)

**Further Information**

For further information, please contact the president of Fraunhofer Society Prof. Dr. Guido Kickelbick. Your CV (including details of academic and professional career) and a brief description of your five most significant achievements (prizes/awards, publications/patents, projects, etc.) and electronic copies of your certificates will be required, including any previous professional experience with relevant expertise in the Fraunhofer Society's overall strategy.

We expect you to be adept at teaching the relevant core scientific and engineering topics and applications which interest you, including thermography, acoustics, or microwave technology.

**Additional Details**

Saarland University and the Fraunhofer Society value and promote the diversity of expertise within their professorial staff to engage in activities that promote and foster further internationalization and to be willing to teach in a foreign language. Special support will be provided for collaborative work with partners in the Saar-Lor-Lux region as part of the University of the Greater Region project (www.uni-gr.eu).

The successful candidate must have a proven track record in one or more of the following fields:

- Creating and characterizing (micro)sensors
- Electronic systems for driving and extracting data from sensors and sensor arrays
- Sensor modelling and model-based and/or adaptive signal processing
- Sound signal processing based on machine learning or other methods of artificial intelligence
- Stream processing and/or IoT engines
- Sensor system integration including testing and calibration
- Sensor networks and the use of distributed processing methods
- System implementation and application of sensor technologies in complex systems and processes
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You will also have extensive experience in managing large interdisciplinary research groups, in strategic planning and in the acquisition and implementation of major national and international research and development projects across a variety of fields, as well as expertise in boosting the efficiency of development processes, in technology utilization and in teaching, ideally in the fields of instrumentation and measurement as well as signal processing.

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