



Our **Stuttgart Technology Center** is the **biggest Sony research center outside of Japan**, where we develop innovations and core technologies for future generations of products to meet the requirements and needs of worldwide markets and customers.

The RF-Devices team in the European Technology Center (EuTEC) focuses on technology innovations, research and development of the physical layer in next generation broadcast / broadband communication systems and advanced millimeter wave sensors & radar systems. The research results will define the core technologies for future products and new business opportunities for Sony.

We are currently seeking for a skilled

**Research Engineer (m/f)**  
**Signal processing and algorithms for  
RADAR and Fusion Systems**

**Forschungs-Ingenieur (m/w)**  
**Signalverarbeitung für Radardaten  
und Fusionsalgorithmen**

This work is conducted in the European R&D center of Sony Europe Ltd. in Stuttgart/Germany.

**Tasks**

- Scientific research & conceptual engineering in the area of modern multi-channel electronic beamforming mm-wave radar systems, specifically short range imaging radar sensing systems and automotive radar sensors.
- Algorithm research and development for improved radar resolution, detection performance, robustness and joint processing towards multi-mode fusion engines - simulation (MATLAB) and documentation/presentation of the results.
- Contributions to experimental verification platforms, realtime testing and optimization of systems and algorithms

**Aufgaben**

- Forschung und Konzeptentwicklung für mehrkanalige mm-Wellen Radarsysteme mit elektronischer Strahlformung. Die Applikation reichen von bildgebenden Radarsensoren für kurze Distanzen bis hin zu automobilen Anwendungen.
- Architektur- und Algorithmen-Entwicklung zur Verbesserung der Auflösung, Detektionsgüte, Assoziation, Tracking, .....und Signalverarbeitung für multi-modale Fusionssysteme mit Hilfe von Simulationen (MATLAB).
- Beiträge zu Demonstratoren und HW-Aufbauten zur Algorithmen-Verifikation und Optimierung.

**We offer**

- The opportunity to work in an international team with diverse expertise ranging from advanced RF to signal processing for heterogeneous sensor systems.
- The chance to apply your skills to state-of-the art signal processing and novel Radar R&D topics.
- The opportunity to shape and create the development of a new technologies and innovative business opportunities

**Skills required**

- Diploma degree or PhD in the areas of digital signals processing, communications technologies or applied mathematics. Professional experience (i.e. in industry or University/Institutional R&D) and hands-on experience in radar signal processing or fusion signal processing is an advantage.
- Strong analytical skills and good theoretical understanding of modern radar signal processing methods – ability to apply theoretical knowledge to scientific and engineering challenges.
- Familiar with radar signal processing & algorithms aiming at multi-sensor fusion.
- Demonstrated experience in modeling of systems and algorithms using state-of-the-art simulation tools such as MATLAB. Hands-on experience in testbed integration is an advantage.
- Self-motivation, flexibility and ability to learn and apply knowledge in new areas of technology.
- Interest in working in an international team and good English language skills (written and spoken).

**We are looking forward to receiving your application. Please send your application to:**

Sibila Atanasova  
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