



Our **Stuttgart Technology Center is the biggest Sony research center outside of Japan** and it is where innovations and future generations of products are being developed to meet the requirements and needs of the worldwide markets and customers.

The RF-Sensor team in the European Technology Center (EuTEC) focusses on technology innovations, research and development in the area of millimeter wave sensors and radar systems. The results of the research will define the core technologies for future products and new business opportunities for Sony.

We currently have an opening for a:

## **Student Internship / Master Thesis** *Algorithm Investigation for Angle of Arrival Estimation*

This work is conducted in SONY's European Technology Center in Stuttgart/Germany. We envisage a 6-months activity.

### **Tasks**

- Review of generalized expectation maximization (EM) parameter estimation methods such as SAGE (Space-Alternating Generalized Expectation-Maximization) in the context of radar applications
- Algorithm implementation in MATLAB/Simulink models
- Study of the algorithm performance and complexity in a MATLAB based simulation framework
- Documentation of the simulation code and the achieved results

### **We offer**

- The opportunity to work in an international team with complementary expertise ranging from RF to signal processing
- The chance to apply and extend your skills in state-of-the art signal processing R&D topics
- Supervision and assistance by an senior R&D Engineer in the signal processing field

### **Skills required / Your profile**

- Interest in signal processing and algorithms related to parameter estimation, good mathematical and analytical skills
- Basic knowledge of Matlab programming.
- Self-motivation and ability to learn and apply knowledge in new area of technology.
- Like working in an international and interdisciplinary team and the ability to communicate in English (written and spoken).

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

**Sony Europe Limited, Zweigniederlassung Deutschland**

**Stuttgart Technology Center**

**Hedelfinger Straße 61,**

**70327 Stuttgart**

**Germany**

**Phone: +49/711-5858-299**

**Email: [stc-recruiting@eu.sony.com](mailto:stc-recruiting@eu.sony.com)**

**Web: <http://www.stuttgart.sony.de>**