



Our **Stuttgart Technology Center** is the largest 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 European Technology Center (EuTEC) focusses on technology innovations, research and development of Computational Imaging, Communications & Radar, Machine Learning and Speech & Sound. The results of the research will define the core technologies for future products and new business opportunities for Sony.

For students with background in mathematics, computer science, signal processing or electronics we permanently offer positions for:

Internship / Master Thesis

This work is conducted in SONY's European R&D Center in Stuttgart.

Selection of possible working areas

- Research and development in the fields of:
 - Computational Photography, light field imaging, compressive sensing and computer vision
 - Signal Analysis, Automatic Speech Recognition, Source Separation, Audio Rendering, Audio Event Detection
 - Machine Learning in general: Deep Learning, Context Representation, Recommender systems ...
 - Text Understanding and Text Analysis, Natural Language Processing.
 - Radar Systems, MIMO Sensing signals, EMC, Beamforming, imaging, target identification, tracking and localization
 - Digital Communication system design for Broadcast & Bi-directional standards
 - Advanced receiver technologies: channel estimation & equalization
 - Antenna Design (from MHz to GHz) for communications as well for wireless charging
- Microwave / Millimeter-Wave circuit design and Antenna characterization in the mm-wave laboratory & anechoic chamber.
- Implementation of data and signal processing in Matlab.
- Development of applications on Android or on embedded systems (Arduino, RaspPi, etc)
- Programming in Java / C / C++ / C# and scripts using bash, Perl, Python, Ruby language.
- Full-wave EM simulations using CST Microwave Studio / Keysight ADS and Momentum / FEKO
- PCB design using Altium Designer or Eagle

We offer

- The opportunity to work in an international team with diverse expertise ranging from analog hardware to signal processing, machine learning and informatics,
- The chance to apply your skills and theoretical knowledge in current research activities.
- Learning more about state of the art technology in your field of interest.

Prerequisites

- You are studying towards a master degree in one of the areas topics listed above.
- You have good programming skills, good mathematical knowledge, preferable insight into our research areas
- You are interested in theoretical and practical work in our laboratory.
- You are self-motivated and have ability to learn and apply knowledge in new area of technology.
- You like to work in an international team and have the ability to communicate in English (written and spoken).

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