

# Embedded/Real-time Software Engineer

**Job Title:** Research Assistant

**Job Category:** Engineering / R&D

**Location:** Berlin, Germany

**Full/Part Time:** Up to 80 hours per month, i.e., part time job

**Job Type:** Student/Intern

**Regular/Temporary:** Temporary

**Apply Before:** Ongoing

**Job posting date:** 11.02.2016

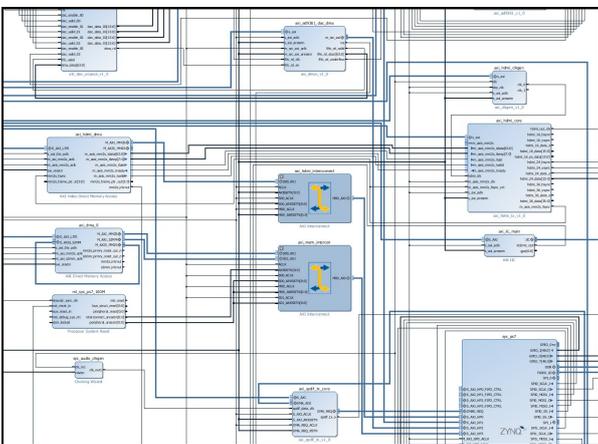
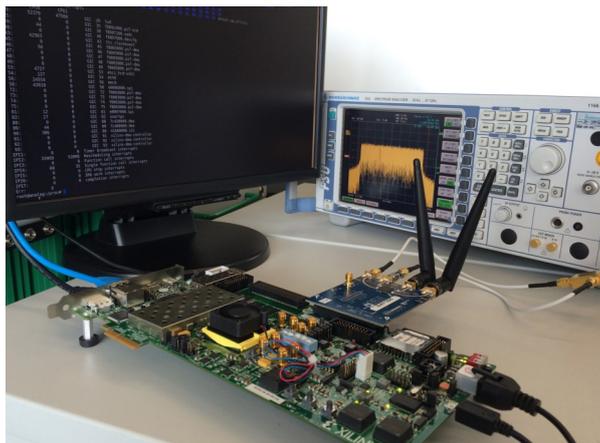
**Job starts:** ASAP



## Embedded/Real-time Wireless Communication System Developer

Fraunhofer Heinrich Hertz Institute is seeking a motivated student for unique opportunity to be a part of the development process of SoC real-time wireless communication systems on the cutting-edge embedded hardware. The accepted applicant will work side-by-side with specialized researchers in the domain of wireless communications to develop working prototypes of state-of-the-art wireless communication systems to be potentially the building cores in future 5G wireless networks.

The ideal candidate spans the range of the entire SoC software development process starting from the FPGA fabric design and ends up with Linux embedded C/C++ applications. He/she should have a solid background knowledge in embedded Linux and FPGAs. The selected candidate will support us in designing DSP IP cores, customize the required Linux drivers for them, and writing the embedded C/C++ applications that runs on the Linux kernel.



## Requirements

- Enrolled Master/Diploma (m/f) student within Electrical Engineering, Computer Science, or related study fields, with a concentration on Communication and/or Digital Signal Processing
- Very good programming skills MathWorks® MATLAB®/Simulink®, knowledge with Xilinx® DSP System Generator is a plus
- Experience in FPGA programming, the familiarity with Vivado® Design Suite is highly desirable
- Hands-on development using C/C++ targeting Embedded Linux
- Basic knowledge in the hardware description languages such as VHDL and Verilog
- A team player able to work with little guidance who has solution-oriented attitude
- Fluent in English or/and German verbal & written

## We Offer

- Flexible office hours for your own best time management convenience
- The opportunity to work with state-of-the-art topics for future and beyond wireless communication networks

The position is limited to six-month student contract and may be extended. Severely disabled applicants with equal qualification and aptitude will be given preferential consideration. Fraunhofer-Gesellschaft prefers to balance the number of female and male employees.

The applicants must submit their applications directly to the scientific advisor per email. We look forward to receiving your application!

In case of any further question regarding the advertised vacancy, please do not hesitate to contact the scientific advisor:

Wilhelm Keusgen, Dr.-Ing.  
E-mail: wilhelm.keusgen@hhi.fraunhofer.de  
Tel: +49 (0)30 31002-639

Ramez Askar, M. Sc.  
E-mail: ramez.askar@hhi.fraunhofer.de  
Tel: +49 (0)30 31002-419