

Praktikum/Internship – High-Speed Digital Solutions Engineering

Job Description

Keysight Technologies is the **world's premier electronic design & measurement company**. Through more than 80-years of our history founded as Hewlett-Packard and followed by Agilent Technologies, we have become an uncompromised leader in [most test & measurement product categories](#) like network analyzers, spectrum and signal analyzers, oscilloscopes, signal generators, bit error ratio testers, optical test instruments, and many others.

At Keysight, we **help other companies address their toughest design and test challenges** with precision and confidence. We offer the most precise electronic measurement solutions in the industry, with advanced software to match and the highest expertise of our people. Our employees leverage their passion to revolutionize electronic measurement and make a difference in the world.

Our customers are from many industry segments like [Automotive & Energy](#) (Electrical Vehicles, Connected Cars, and Autonomous Driving), [Network & Data Centers](#) (Optical Communications and High-speed Digital Interconnects), [Mobile Wireless Communications](#) (5G, Bluetooth, Wi-Fi, and IoT), [Aerospace & Defence](#), [Quantum Engineering](#), [Industrial & Manufacturing](#). Together with our customers, we are in front of the technologies of the future and innovate everywhere helping to build a better planet for the next generation.

High-speed digital standards like PCIe, USB, DDR, and Ethernet are quickly evolving to keep pace with emerging technologies such as 5G, Internet of Things (IoT), artificial intelligence (AI), virtual reality (VR), and autonomous vehicles. Our customers need to test their high-speed digital designs across all product development stages — from design and simulation, analysis, debugging, and compliance tests. We help our customers anticipate test challenges, optimize performance, and accelerate time-to-market of high-speed computing interfaces, data center connections, and consumer electronics.

Our Offering:

- Paid 6-months internship with demanding tasks and projects in a high-skilled inclusive and diverse team of pre-sales solutions engineers.
- Extensive technical mentorship as well as a comprehensive training program.
- Open and cooperative working environment with a variety of opportunities for personal development that can create ideal conditions for your future career.
- Location in our headquarters in Böblingen, Germany where different Keysight's key departments operate (Sales & Support, Research & Development, Manufacturing, Service Center).

Job Qualifications

We're particularly interested in students with the following qualifications:

- Pursuing Masters's degree in Electrical Engineering (preferred: relation to wireline communications).
- Some experience with Test & Measurement equipment (preferred: oscilloscopes, probes, arbitrary waveform generators, bit error ratio testers, protocol/logic analyzers), interest in state-of-the-art electronic technologies, and intention to learn and use comprehensive measurement tools and methods.

- Basic knowledge of low-speed and/or high-speed (> 1 Gbit/s) serial data communications (e.g. CAN, LIN, UART, SPI, (automotive) Ethernet, USB, PCIe, etc.).
- Programming skills in Microsoft Visual Studio C# and/or Python and/or Matlab.
- Good communication and organization skills.
- High level of initiativeness, creativity, and desire to work and progress in a team.
- Native or high-proficient German and high-proficient English language skills in spoken and written forms.

Have we aroused your interest? Do you feel compelled by our requirements? Then we would like to get to know you better in a personal conversation. Please apply to this job requisition and upload your complete documents. And then... Be First and Best. With Keysight.

Job Function

Every person at Keysight matters and can contribute to our success! **As an intern**, you will get a comprehensive technical training program complemented by the development of professional skills required in the sales and services environment, followed by possible work on customer-facing projects. This can enable an effective start in your **potential career** as a Pre-Sales Solutions Engineer, a Technical and Application Support Engineer, or a Sales Engineer/Account Manager.

During your internship with us, you will get an in-depth insight into our company, its culture, our global strategies, industries, and the applications we cover with our solutions and expertise with the main focus on supporting the **High-Speed Digital Test Solutions** of Keysight.