

Internship for Engineers (m/f/x) – Automotive Cybersecurity Solutions

Our Offering:

- Paid 6-months internship focused on supporting the Keysight Automotive Cybersecurity Penetration Test Solution in a high-skilled inclusive and diverse team of solutions engineers/measurement experts.
- Extensive technical mentorship as well as the comprehensive training program followed by deepening in the direction of automotive cybersecurity testing.
- Open and cooperative working environment with a variety of opportunities for personal development that can create ideal conditions for your future career.
- Located at our European headquarters in Böblingen, Germany, where several Keysight main divisions (Sales & Support, Research & Development, Manufacturing, Service Center), notably the Automotive & Energy industry solution team, operate.

Job Description

Keysight Technologies is a leading technology company that helps enterprises, service providers, and governments accelerate innovation to connect and secure the world. The company offers a comprehensive cybersecurity portfolio, including hardware, software, and services, to address the growing concern about cyber-attacks on connected vehicles.

As modern self-driving cars gain more autonomy, the number of cybersecurity vulnerabilities grows. Modern communication techniques improve comfort and safety features in our automobiles, but they also expose us to the possibility of ransomware, denial of service assaults, and other nefarious actions. Some of this would result in a loss of functioning, comfort, and, in the worst-case scenario, human life.

Keysight offers a full Automotive Cybersecurity solution that includes both hardware and software and addresses all layers of the OSI model. The platform supports a high degree of automation in testing, encompassing all important platform interfaces, allowing you to find and identify vulnerabilities faster, allowing for faster reaction. The subscription-based solution allows you to test your device against the most recent known vulnerabilities, as well as detect possible hazards and first-day exploits and integrate your own hardware and software solutions. The **Keysight Automotive Cybersecurity Penetration Test Solution** provides a scalable platform for validating ECUs, complicated subsystems, and whole automobiles against cyber-attacks.

Our Offering:

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- Extensive technical mentorship as well as the comprehensive training program followed by deepening in the direction of automotive cybersecurity testing.
- Open and cooperative working environment with a variety of opportunities for personal development that can create ideal conditions for your future career.
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Job Qualifications

We're particularly interested in students who are pursuing a career in one of the following: Electrical / Electronic Engineering, Computer Science, Computer Engineering. Do you study one of those, have solid RF and Wireless

Communications knowledge, combined with skills in Computer Science like programming and LINUX? Are you keen to learn more and become a cybersecurity expert?

The following requirements are important to us:

- Bachelor's degree in Electrical/Electronic Engineering, Computer Science, Computer Engineering.
- Interest in state-of-the-art electronic and computer technologies and intention to learn and use comprehensive measurement tools and methods.
- Solid knowledge of RF & microwave theory and wireless communications (Cellular, Wi-Fi, Bluetooth).
- Basic knowledge of serial data communications (CAN, automotive Ethernet, USB).
- Network security and network visibility knowledge and experience are a great plus.
- Good knowledge of C#/C++, Python and LINUX
- High level of initiativeness, creativity, and desire to work and progress in a team.
- Good communication and organization skills.
- Fluent high-proficient English language skills in spoken and written forms.

Have we aroused your interest? Do you feel compelled by our requirements? Are you challenged by the idea of becoming a White Hat hacker? 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, which will enable an effective start in your new career as a solutions engineer, or a technical and application support engineer, or a sales engineer.

With your internship, 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.

As a valuable member of our Solutions Engineering Organization (SEO) at the EMEA Sales organization (ESO) of Keysight Global Sales (KGS), you will be able to apply your technical knowledge from at least 6 semesters in practice, learn measurement fundamentals and advanced test methods and instruments focusing on the **Keysight Automotive Cybersecurity Penetration Test Solution**, gain invaluable experience of working in a big technological international company and develop your communication skills.