

# Software Engineer

*Bordeaux, France*

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Hello!  Are you curious, passionate and have a taste for challenges? Do you wish to develop your skills in an innovative and multinational environment?

eShard is an independent deep-tech cybersecurity company, with around 40 employees. The company is fully self-funded and operates almost exclusively on international markets. Its core business is built on advanced software solutions for hardware and software security investigations, backed by strong technical expertise of our team, and reputable industrial partners, including Google, NVIDIA, and major defense and governmental actors.

A key differentiator of eShard lies in its unique platform approach. Hardware and software investigation solutions are unified within a single, shared platform, providing experts with one environment for collaboration, analysis, and knowledge sharing. This platform is designed for specialists who need a central place to integrate dedicated tools, reuse accumulated expertise, and access structured knowledge material covering the full range of security investigation techniques, from hardware to software.

Built as an open and modular system, the platform enables seamless integration of specialized tools and workflows while remaining adaptable. On top of this platform, eShard has developed turnkey solutions for hardware investigations (side-channel, fault injection), unique catalogs of attacks, techniques, and methodologies, and advanced capabilities such as time travel debugging, positioning the platform as a comprehensive environment for modern security investigations.

For that, we have assembled a great team of specialists, and you could be one of them!

-  **Desired start date:** as early as possible.
-  The position is based in **Pessac (33)**, next to Bordeaux.

This opportunity is open to candidates of all educational backgrounds. We base our recruitment processes on skills and expertise, regardless of ethnic origin, age, or gender, and all our positions are open to people with disabilities. If you're not from France, please ensure you have a valid work visa.

## **Your day-to-day at eShard for this position would be**

You are responsible for designing, developing, integrating and validating new features and equipment into the platform.

- Integrate third-party hardware devices into the platform. This includes a driver integration, a python library creation and writing jupyterlab notebooks.
- Design, develop and integrate widgets in Jupyterlab
- Design, develop and integrate python libraries for scientific computations in line with experts requirements
- Troubleshoot, debug and upgrade existing software
- Keep the software resources in the hardware lab up and running
- Provide level-2 support to security experts and field application engineers
- Recommend and execute improvements

You report to the lead developer. All developments are defined and assigned in Gitlab and Plane tools.

## **You're perfect for us, if...**

Within eShard, your enthusiasm lies in honing your skills and expanding your knowledge within a dynamically evolving technical landscape. The facets that define you encompass:

### **Hard skills**

- Master degree in software engineering or equivalent.
- Strong proficiency in software design and development, with a focus on building robust, scalable, and secure applications.
- Solid experience with one or more programming languages such as Python, C/C++, Rust, or similar.
- Good understanding of software architectures, algorithms, and data structures.
- Experience with version control systems (e.g. Git) and collaborative development workflows.

- Familiar with software security best practices, secure coding principles, and vulnerability mitigation.
- Experience in debugging, testing, and code review.
- Knowledge of operating systems and low-level software concepts is a plus.
- Advanced written and spoken English.

#### Soft skills

- Good communication skills, written and verbal.
- Finisher.
- Teamwork.
- Highly determined.
- Tech enthusiast.
- Analytical and problem-solving skills.
- Self motivated.

In this role, you will find a platform to amplify your potential, all while contributing to the ongoing success of eShard's endeavours.

#### Your benefits

- Competitive compensation package based on experience
- Flexible working hours and remote work options
- Support from professionals in a cutting-edge and booming business sector
- Dynamic work environment within a friendly team
- High performance work equipment
- Space dedicated to talent development
- Comprehensive health insurance offering extensive medical care coverage
- Meal vouchers covered up to 50%
- Corporate events, snacks and drinks

#### Interested?

Our hiring process includes an initial screening call, a skills assessment, and interviews with the hiring manager and some team members. The selected candidate will receive an offer within a few days.

Contact us by sending your resume and cover letter to  
[career@eshard.com](mailto:career@eshard.com)