

Hardware Security Analyst

We are hiring!

[eShard](#) is a global, independent company with world-class expertise in security for embedded and mobile products. Companies like Google, Visa, NXP and other leading vendors around the world use our solutions and services.

We are strengthening our technical team and are looking for a self-motivated individual ready to work on engaging and challenging projects aimed at increasing the knowledge and product portfolio.

Do you have interest in working on hardware security topics (e.g. side-channel analysis, fault injection, photoemission...), produce content such as new attack paths or training material, develop new tools or improve existing tools (e.g. graphical widgets, computing libraries...), and publish technical blog posts?

If so, your work and motivation will significantly contribute to eShard success.

Job description

Your day-to-day at eShard for this position

You work on different topics related to hardware security analysis. Typical projects range across the following categories:

- R&D: exploit fault injection on a memory target with a pico-laser source, exploit Thermal Laser Stimulation on a SoC target...
- Productization: package into a "Starter Kit" a set of Python notebooks implementing a fault injection attack and a hardware DUT (Device Under Test) ready to use for self-learning, develop new notebooks for the Thermal Laser Stimulation expertise module...
- Expertise project: participate in the scoping of a customer project, implement hardware attacks on the customer target, expose project outcomes to the customer, discuss possible next steps.

You also contribute to eShard's technical communication on hardware security. T can be writing blog posts related to projects you have undertaken, preparing a poster or paper for a conference or a webinar to present one of your research topics.

You work from our office in Pessac, France; it's important to have a place of work to meet and hang out. Parts of a project may require interacting with customers all over the world. Our office culture is highly technical, our organisation fairly flat and our mindset flexible.

Your skills and experience

- Master in computer science or equivalent
- First experience in fault injection
- Solid background in cryptography
- Master digital processing and statistical tools
- Background knowledge in chip microarchitectures
- Python programming
- VHDL / FPGA programming and electronic experience is a plus
- Fair written and spoken English
- Good communication skills
- Time management and organisational skills to meet project deadlines
- Teamwork
- Analytical and problem-solving skills
- Self motivated

Your benefits

- Competitive compensation package
- Flexible working hours, remote-friendly environment
- Strong focus on personal development
- High performance office equipment
- Comprehensive health insurance policy offering extensive medical, dental and vision care coverage
- Meal Vouchers
- Annual company outing plus snacks and drinks

Interested?

Send your resume and motivation letter to:

career@eshard.com

Get in touch

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