



# JOB OFFER

## EMBEDDED SECURITY ENGINEER RESEARCH & DEVELOPMENT ENGINEER

### THE COMPANY

Nintendo European Research and Development (NERD) is a French subsidiary of Nintendo. We are a company of around 85 employees who share a passion for creating key software technology and cutting-edge solutions for Nintendo Switch™ and other Nintendo platforms. In close collaboration with counterparts in Japan and the USA, we contribute in fields such as emulation, signal processing, content generation, computer vision, machine learning, system development, optimization and security to create solutions deployed on over a hundred million homogeneous devices. Come discover an engaging and welcoming work environment in the heart of Paris and join our unique team in its mission to put smiles on people's faces!

### POSITION RESPONSIBILITIES

NERD is looking for an experienced Embedded Security Engineer who will contribute to our internal expertise and push the state of the art in the following ways:

- Vulnerability discovery and exploitation
- Cryptographic algorithms and their modes of operation
- Secure boot design and implementation
- Operating System architecture and security, especially micro-kernels
- Design and code reviews
- White-box and Black-box testing
- Work within an international team to design and implement embedded system security projects
- Write code for security projects

### CANDIDATE PROFILE

NERD is an equal-opportunities employer. All characters are welcome, regardless of gender, ethnicity, religion, sexual orientation, ableness or age.

We are looking for candidates who:

- Already have field experience in embedded security
- Are team players
- Are eager to learn, improve their skills and share their knowledge
- Aim for the best but know when to be pragmatic when faced with engineering problems
- Recognize the constraints and tradeoffs of production environments and deploying software to millions of users
- Are perseverant and attentive to detail
- Have a good general computer science culture
- Have a good knowledge of C/C++
- Have a good knowledge of debugging techniques
- Have a good knowledge of common cryptographic algorithms
- Have knowledge in assembly language and reverse engineering
- Have knowledge about hardware security
- Have knowledge about side channel attacks
- Have experience exploiting browsers
- Ideally, candidates would have experience in hacking complex security embedded systems (preferably video-game consoles).

We expect candidates to be proficient in English, both written and spoken. The majority of employees speak French, but we also welcome non-French speaking candidates to apply. French, English and Japanese lessons are provided in the office for those willing to learn.

### ADDITIONAL INFORMATION

This full-time position is located in central Paris, France, and candidates are expected to relocate near Paris (domestic and international relocation support provided).

### CONTACT

If you believe you are the right person for this position, please send a resume and a cover letter to [apply@nerd.nintendo.com](mailto:apply@nerd.nintendo.com) with **SECUSYSTEM** in the subject line.