
Research topics	Android Security and Malware Analysis
Position (M/F)	Research Engineer
Reference offer	SN/DB/AndroidARM/092024
Research Department	Digital Security (SN)
Publication date	12/09/2024
Start date	ASAP
Duration	Fixed term contract 12 months

Description

At EURECOM, we are at the forefront of bridging academic research with practical, real-world applications. Our latest initiative is a startup, spin-off from our lab, dedicated to a groundbreaking project in cybersecurity. This venture is supported by an ERC grant from the EU and focuses on developing a sophisticated service for Android malware analysis. We seek an Android Security Engineer skilled in Android platform and kernel development, and collaborating in research activities related to Android security and malware analysis fields.

The Role:

Collaborate on academic research projects on Android malware analysis, taking part in the development of our malware sandbox.

Document the design and the entire architecture comprehensively.

Support designing and implementing mitigation against novel evasive malware techniques.

Collaborate with cross-functional teams to integrate the system in a cloud-based environment.

Your Profile:

Proven experience with the Android platform (AOSP and kernel).

Strong programming skills in C and Python.

Strong understanding of Android, security, and best deployment practices.

Proficiency with both x86 and ARM architectures.

Ability to clearly document and communicate complex architectures and policies.

A Bachelor's or Master's (preferred) degree in Computer Science, IT, Systems Engineering, or a related field is required.

Experience with Google Cloud Platform and its suite of products is a plus.

What We Offer:

A key role in a high-profile project that merges academic insights with startup agility.

The opportunity to work on a pioneering cybersecurity project with significant EU backing.

A competitive salary and a benefits package that reflects the importance of your role.

A collaborative and innovative workplace where your technical skills will have a major impact.

Requirements

- Education Level / Degree : Bachelor or Master's (preferred) degree
- Field / specialty: Computer Security, Computer Science, Computer Engineering
- Technologies: Linux kernel, x86-64 & ARM architectures
- Languages / systems: C/C++, Python
- Other skills / specialties: Kernel development, Android AOSP development, Malware analysis, Experience with Google Cloud Platform is a plus
- Other important elements: Proficiency in English



Application

The application must include a detailed curriculum.

Applications should be submitted by e-mail to secretariat@eurecom.fr with the reference : **SN/DB/AndroidARM/092024**.

About EURECOM

EURECOM is a major Engineering School and a Research Center in digital sciences founded in 1991 as a consortium in the international technology park of Sophia Antipolis. The IMT is a founding member of the GIE. Teaching and research activities are organized around 3 promising fields: digital security, communication systems and Data Science.

EURECOM has a staff of 150 (researchers and support teams) and welcomes 400 international students on the Campus Sophia Tech, the largest information science and technology campus of the region. EURECOM enjoys a privileged geographical environment on the French Riviera (Côte d'Azur), between sea and mountains, at the heart of a dynamic and multidisciplinary ecosystem that promotes high-level scientific and technological innovation.

Social advantages

- International and multicultural environment
- Attractive salary - Corporate saving plans
- Private retirement plan (executive, employer participation of 100%)
- Employee profit sharing policy
- Company health insurance (mutuelle) with high levels of guarantees for the whole family (employer participation of 60%)
- Restaurant vouchers (employer contribution of 60%)

EURECOM is one of Europe's leading engineering schools specializing in digital technologies. It is located in the heart of the Côte d'Azur, in Europe's Silicon Valley (Tech Park Sophia-Antipolis). EURECOM's research teams work in an international, multicultural environment.

EURECOM has a dynamic policy in terms of **inclusion and quality of life at work**. We are committed to diversity and give equal consideration to all applicants, without discrimination. Above all, we look for competence and team spirit.

All our positions are open to **people with disabilities**. EURECOM has set up a disability advisor to provide support and advice, organize accommodation and make positive commitments to personal integration.

As part of its **gender equality plan**, EURECOM encourages gender diversity within its teams. As part of our gender equality action plan, we encourage male applications for administrative positions, traditionally held by women, and female applications for IT and research positions, traditionally held by men.

EURECOM is taking positive action as part of its **CSR policy**. A CSR representative oversees EURECOM's CSR and energy transition policies (electric charging stations, solar panels, waste sorting, etc.).

Web site EURECOM: <https://www.eurecom.fr/fr/eurecom/presentation>

EURECOM in VIDEO: <https://www.youtube.com/watch?v=ullFcqNijnM>

Employee experience:

<https://www.youtube.com/watch?v=gITWTVRgLpc>

<https://www.youtube.com/watch?v=BHv9zlduzuQ>

<https://www.youtube.com/watch?v=hvbzzCBups8>