EURECOM
Sophia Antipolis

PROJECT PROPOSAL – FALL 2023

PROJECT 100 HOURS = 5 ECTS	PROJECT 200 HOURS = 10 ECTS
	ENGINEER 24 MONTHS – ALL TRACKS
	~~Data Science~~
	Digital Security
	~~IoT~~
	~~Mobile Com~~
POST MASTER 18 & 24 MONTHS	**MASTER 24 MONTHS – ALL TRACKS**
~~ITS~~	~~Data Science~~
~~SIC~~	Digital Security
	~~IoT~~
	~~Mobile Com~~
	MASTER SECCLO
	~~CURSUS 6-12 MONTHS – NOT MANDATORY~~

PROJECT 180 HOURS = 8 ECTS
MASTER EIT
~~Autonomous System~~
Cyber Security

Supervisor(s): Antonio Faonio

Industrial contact(s) / company:

Number or students / group max.: 2

PROJECT TITLE: Implementation in Rust of zk-SNARKs

PROJECT DESCRIPTION:

❖ **For 200 hours project**

This student project centers on implementing zk-SNARKs, a powerful cryptographic tool, using the Rust programming language. The project aims to demonstrate the practical application of zk-SNARKs in privacy-preserving computations, showcasing the student's proficiency in both advanced cryptography and Rust programming.

> **Requisites:** You <u>must</u> have already followed a course in Cryptography. You must have good understanding of algebra (linear algebra, finite fields, group theory).