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| --- | --- |
| PROJECT MANDATORY  200 HOURS = 10 ECTS | |
| ENGINEERS 36 MONTHS – ALL TRACKS  Data Science  Internet of Things  Digital Security  Intelligent Communication Systems  Embedded Systems | **MASTER 24 MONTHS – ALL TRACKS**  Data Science  Digital Security  Internet of Things  Intelligent Communication Systems |
| MASTER SECCLO – 12 MONTHS | |
| PROJECT MANDATORY  180 HOURS = 8 ECTS | |
| MASTER EIT DIGITAL – 12 MONTHS  Digital Cyber Security  Autonomous System | |
| PROJECT MANDATORY  100 HOURS = 5 ECTS | **PROJECT NOT MANDATORY**  **200 HOURS = 10 ECTS** |
| POST-MASTER 18 & 24 MONTHS  Security in Computer Systems and Communications | **CURSUS 6-12 MONTHS** |

# **PROJECT PROPOSAL – FALL 2024**

*\*Please cross out any degrees or tracks that do not apply to your semester project.*

**Name of supervisor(s): Raymond Knopp, Cedric Roux**

If applicable: Name of industrial contact/company:

**Number of students/group max.: 2**

**PROJECT TITLE: Testing OAI 7.2 implementation on Ampere ARM servers**

**PROJECT DESCRIPTION:**

* **For 100 hours project**

**OpenAirInterface** has recently been tested on Ampere ARM servers. More recently, initial porting the ORAN libxran fronthaul interface has also been carried out to allow for simple testing with commercial O-RU (Open Fronthaul Radio Units) using the 7.2 open fronthaul interface. The first part of this project involves understanding the development and testing framework for 7.2 on Ampere ARM. The students will test commercial 5G user equipment with OAI running on Ampere ARM combined with commercial O-RU at EURECOM.

* **For 180/200 hours project (additional tasks)**

Additional investigations will include finishing the porting of libxran block floating-point compression to make use of ARM Neon instructions and to perform subsequent testing with O-RU devices at EURECOM.