

Assistant (Student)

# Further development of an SDR testbed (AISEC)

At AISEC multiple sensor nodes and SDRs are running to create a research environment for wireless protocols and physical layer security. You will work with the available hardware, which consists of the latest generation of SDRs from Ettus and widespread SDRs like the HackRFOne and the PlutoSDR.

The aim of the project is to implement an SDR test setup for experimental wireless communication. Among the desired features are the basic transmission, the injection of arbitrary packets and the research of physical layer security. The implementation will focus on GNURadio with existing and adapted blocks.

The monthly working time is 40 hours and can be increased if desired.

## Prerequisites

- Knowledge and experience in Python programming (C++ is beneficial)
- ? Experience with SDRs is advantageous
- ? Knowledge in RF and Communications
- ? Experience working in Linux environments

## Contact

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## Advisors

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