

Internship proposal / Proposition de stage

« Towards the Modeling of Smart Contracts in the Smart IoT for Mobility project »

Advisors :

François Verdier, Agnès Festré

1. Subject of the internship

The LEAT (UMR CNRS 7248) laboratory is conducting a research on the field of the Blockchain and more specifically on the Smart Contracts that are one of the newest innovation that could revolutionize our lives. Around these new issues, the LEAT has built a partnership with the I3S laboratory (UMR 7271) which is mainly oriented towards computer science, with the INRIA (for the Design Specific Language specialty) and with the GREDEG laboratory (UMR 7321) in the law and economics in Nice and Sophia-Antipolis, and with the CERSA (UMR 7106) in Paris. The objective of their common research is to find the correct way to implement Smart Contracts in the IoT platforms, in the architectural, computer science, langage but also economics and law domain.

This internship will be on the modeling of architectures, on the way for modeling all the software aspects and on what could be invented for managing the smart contracts but also on the distribution of some demonstration software to the LEEN (Laboratoire d'Economie Expérimentale de Nice) for economic study and research. For doing this research, the trainee will work with the economics researchers at the GREDEG and the LEEN and more particularly with Marta Ballatore, a trainee in the Smart Contract at the GREDEG. This internship is mainly oriented towards laying the foundations of what could be done in the ANR project.

Depending on the results obtained by the trainee on this subject, and on the acceptance of the ANR project « Smart IoT for Mobility », this internship is planned to continue in a PhD thesis at the laboratory.

2. Salary

The internship will be paid approximately 500 euros per month.

3. Contacts

The internship will be done in the laboratory LEAT, UCA-CNRS UMR 7248, 930 Route des Colles, 06903 Sophia Antipolis. It will be supervised by François Verdier, Professor, but will also be done in Agnès Festré, Professor at the GREDEG, UCA-CNRS UMR 7321, laboratory and director of the LEEN.