The three main tasks of this PhD thesis will be:

1. To propose a Regulation on Privacy and Electronic Communications of 10 January 2018-00302 - [INDES] Design and enforcement of user's privacy policies in IoT applications.

2. To address the above mentioned issue with an innovative approach, and develop a user-friendly language to express privacy policies and then automatically enforce them in IoT applications.

3. To investigate the automatic implementation of privacy and security policies.

The consortium includes 10 researchers and professors from all over France. This job description concerns one of the open positions within this project.

Citations:


friendliness and formal semantics.

2) Translation of user-defined privacy policies into enforceable policies — in addition to being understandable by users, policies should therefore be translatable into machine-readable policies and applied to the corresponding data.

3) Enforcement of privacy policies by certified compilation — adapting the machine-readable policies to a multilayer compiler (developed in the project, based on [5, 6]) that transforms an IoT application into an application where all the required policies are properly integrated.

**Collaboration**:

The PhD student will closely work within the INDES research team of the Sophia-Antipolis Inria Research Center with strong interactions with PRIVATICS team (in Lyon and Grenoble, Rhône-Alpes Inria Research Center) and the CELTIQUE team (in Rennes, Bretagne Inria Research Center).

**Citations**:


**Skills**

Master degree in Computer Science or Computer Engineering is required. Programming skills. Knowledge of Formal Semantics and program analysis is preferred. Fluent English required, both oral and written.

Knowledge of French is not required.

**Benefits package**

- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

**Remuneration**

Duration: 36 months
Location: Sophia Antipolis, France
Gross Salary per month: 1982€ brut per month (year 1 & 2) and 2085€ brut/month (year 3)