

ENJOY AND DEVELOP YOUR ENGINEERING SKILLS DURING A **6 MONTHS INTERNSHIP IN SOPHIA ANTIPOLIS (FRANCE)**

Codalip develops a portfolio of RISC-V based processors, easily customizable using a unique toolset, Codalip Studio. **We are hiring in the newly created design center opened in Villeneuve-Loubet city in the south of France.**

WHY WORK AT CODASIP

Do you want to work on the leading edge of a diverse range of technologies, shaping a new era of processing technology? Be a part of a skilled and friendly team based in the heart of Europe? Codalip may be just what you are looking for.

CHALLENGE TO TACKLE

Codalip develops test benches to verify parts of the CPU (like integer core, L1 caches, ALU, etc...). These test benches use random generators to produce flow of pseudo instructions to exercise the RTL code. One of these generators is developed by the Sophia team and aims at disclosing new categories of bugs in the cache memories. The current version is limited to only block level test benches. **What about extending it to make it platform agnostic so that it can be used in bare metal, in simulation or even on FPGA prototypes?**

At the end of the internship, you will have:

- Coded in python the main assembly-generation engine of the tool
- Handled a simple model of a CPU to predict results
- Produced self-checking mechanisms and algorithms
- Hopefully found new bugs in our RISC-V CPUs under development.

Your Tutor:



Philippe LUC will be your mentor. He will help you feel integrated in the team as an engineer and guide you during the internship. Feel free to contact him at philippe.luc@codasip.com for further question.

CANDIDATE PROFILE

- Software writing skills (preferably python)
- Knowledge of CPU microarchitecture
- Knowledge of compilation and cross compilation flow
- Knowledge of Version Control System (Git)
- Spoken and written English is a must
- Active interest in the field and self-education

If you're a young engineer with a passion for innovation, with creativity to solve challenging problems, and you believe in the future of RISC-V... consider joining the Codalip family! The contract is meant to be turned into an open-ended employment after the internship.

→ Apply here: <https://codasip.com/career>