Ground Segment Software Development Intern (M/W)

About Absolut Sensing

Absolut Sensing is developing the technologies necessary to monitor, understand and ultimately predict global changes. Our first mission is to **combat climate change** by providing a **satellite-based methane monitoring service** to allow regulators and emitters worldwide to assess and reduce their emissions.

Join us and be part of the solution!

Internship description

Absolut Sensing is a rapidly growing company with ambitions beyond this first mission. During this internship you can expect to quickly gain knowledge in **Earth Observation missions' ground segment,** and expand your skillset in **geospatial image processing and software development**. **Your work will add value to the control our GEN1 satellite mission.**

We are looking for a Ground Segment Software Development intern for a period of three to six months. As intern, you will work in contact with multiple teams : data processing, user segment, mission planning and mission analysis.

The **main tasks** that we propose are:

- Familiarize with state-of-the-art ground segment software development techniques and best practices.
- Familiarize with existing geospatial data processing libraries and tools.
- Develop the ground segment software that will be operated during the GEN1 mission.
- Support the design of the Order Manager subsystem, in interface with critical ground segment infrastructure such as mission planning centre, or data processing centre.
- Support the mission team by performing analyses on ground targets to be acquired during the mission.

The perimeter of work can adapt to your specific competences and interests.

Profile

Student currently doing the **Máster Universitario en Matemática Industrial (MUMI)** or the **Máster Universitario en Ingeniería Aeronáutica (MUIA)**.

Research shows that women or people belonging to minorities often don't apply to roles they don't feel they match 100% of the requirements. **If this position is interesting to you, we encourage you to apply even if not a perfect match!** We are looking for real people, not robots!

Skills

What technical skills we would like you to have:

- Knowledge of data processing and modelling techniques, and statistical analysis.
- Good skills in algorithms development with Python.
- Experience developing software for geospatial data processing – or working with GIS software.

In addition to that, you should have full working proficiency in either French or English.

Further information

- Position to be filled in March 2024.
- Position based in our premises in Toulouse.
- Contact Fernando Varas fernando.varas@upm.es