



FPGA Engineer

Permanent position based in Toulouse

Syntony GNSS is a human-sized company with an international dimension, based in Toulouse and with the **FrenchTech label**, specializing in **Global** Navigation Satellite Systems (GNSS).

Our ambition: To provide our customers with relevant, innovative, reliable and robust solutions.

World leaders in radio navigation and embedded systems, we are present in fast-growing markets, such as aeronautics, space, road and rail transport, mining and IoT (Internet of Things). We have developed a range of products (simulators, recorders, receivers, indoor/outdoor location systems) that meet the growing needs of these industries.

Keysight, Airbus, Airbus Constellation, Hitachi Rail, Thales Alenia Space, Honeywell, Rockwell, MDA, or the Stockholm, New York and Toronto metros... So many partners who trust us and push us to always go further. With passion, we constantly evolve our solutions to anticipate their needs and perfect our know-how.

At Syntony, we offer a pleasant and stimulating work environment, where the quality of life at work and the availability of our employees promote fulfillment and collaboration. Intellectual stimulation is omnipresent through innovative and varied projects.

We work on a variety of subjects, ranging from aeronautics to space, transport, mining and the environment.

Thus, Syntony vibrates around three fundamental values:

Benevolence:

Together, we cultivate listening, respect and empathy in our interactions, while also valuing the multiculturalism that enriches our exchanges.

We contribute to a positive environment where everyone feels valued and supported. We enrich each other by building strong relationships, both internally and externally.

Excellence:

Together, we strive for excellence in everything we do. Through our commitment, our high standards and our sense of responsibility, we guarantee quality, efficiency and performance. It is through our collective rigour that we meet challenges and provide sustainable solutions.

Adaptability:

Together, we are flexible in the face of the changes around us.

By combining creativity, collaboration and resilience, we find innovative solutions and move forward efficiently. Our agility allows us to evolve in line with our environment.

From students to professionals qualified, help develop future navigation solutions in partnership with our team of experts. Evolve in a caring environment where your ideas take flight and your contributions strengthen the synergy of the company.

Internationally, we meet the challenges of today and tomorrow, supporting our customers throughout the entire process: from the initial vision to development, to delivery and the collection of their satisfaction.

The Context

You will join the Hardware team as an FPGA Engineer, under the responsibility of the Head of the Hardware Department, in order to contribute to the development of embedded firmware within Syntony's radio navigation products and solutions.

What you will accomplish with Syntony GNSS:

The missions that will be entrusted to you:

- You determine and specify the structural choices of firmware, and also of electronic boards, to be developed or upgraded in order to guarantee the achievement of the performance and testability of the project/product.
- You will carry out the various technical activities of the product or project development cycle according to the reference framework chosen: document, specify, design, develop, test, validate, qualify, etc.
- You will ensure the development of firmware in VHDL language and validate it with simulation tools such as ModelSim or XSim in particular.
- You define test plans and procedures and contribute to the equipment validation and integration process
- You will write technical documents, procedures and test reports
- You contribute to the improvement of business standard practices

The technical skills we are looking for :

Technique

- Development of AMD/Xilinx FPGAs and System On Chip (SoCs) in VHDL language
- Participation in the development of electronic boards including radio frequency functions for transmission and reception
- Electronic project management
- Good level of English (minimum level B2)
- Good writing skills in English and French.

Transversal

- Significant organizational capacity: autonomy, rigor, communication and prioritization
- Team spirit: working in close collaboration with multidisciplinary teams: software, hardware, production in particular
- Rigorous analysis: you are able to identify the origin of a bug and choose the best solution.

About You

Graduated with a Bac+5 (engineering school or university curriculum), with a specialization in Digital Electronics or Telecommunications or Embedded Systems, you have at least 5 years' experience as an FPGA Engineer on AMD/Xilinx components. You are familiar with the ModelSim or Xilinx Simulator simulation tools and you are passionate about the design of complex digital systems.

Ready to embark with us to shape the future of sailing? 🚀 ✨ Send us your CV under the reference ENG-648-FR to jobs@syntony.fr

Or apply directly from [the career page of our website](#). See you soon at **Syntony GNSS** !