

SubWAVE Android Development Engineer

Permanent contract based in Toulouse

Syntony GNSS is a human-sized company with an international dimension, based in Toulouse and labeled **FrenchTech**, specializing in **satellite navigation systems (GNSS)**. **Since our recent integration into the Safran Group, we have entered a new phase of growth that combines the agility and innovative spirit of an SME with the solidity and global reach of a major industrial leader.** Together, we are helping to shape the future of resilient NWP technologies.

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, 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.

Join us and grow in a caring environment where your ideas take flight and your contributions strengthen the company's synergy.

The Context

As part of our recent integration into the **Safran Group**, our business is taking on a new dimension. Indeed, this integration allows us to significantly expand and enrich our product range, while benefiting from new synergies and development prospects.

It is in this context of growth and renewed ambition that we are looking for **an Android Development Engineer** to strengthen our Engineering Department and continue the development of **SubWAVE: its patented geolocation system for confined environments**.

An **Android application** (Java/Kotlin) has been developed by Syntony to demonstrate the positioning performance on the SubWAVE system (underground GPS coverage extension), to calibrate it, to monitor it, and to transmit its data to supervision systems. This service will have to be completed for one or more applications providing a graphical interface to be able to configure and/or visualize the results, using the service's APIs.

This application is at the heart of the value proposition of the SubWAVE system.

It makes it possible to demonstrate precise positioning capabilities with the system, by visualizing the calculated position in real time, and to demonstrate user use-cases: safety of underground personnel, traffic management, collision avoidance, navigation, equipment tracking, etc.

Beyond the demonstration aspect, it is an application provided to users for their positioning under the system, and the feedback of the right information to the supervision services.

It is also a critical component for deployment teams to install and calibrate a system in a short time.

In addition, it is a valuable tool for research and development teams to analyze the behavior of the system and make measurements that serve as a basis for the improvement of positioning and calibration algorithms.

What you'll accomplish with Syntony GNSS

You will join the software development department for the SubWAVE product line.

Your role is to maintain and evolve the existing application according to the needs of the system: enrich the user interfaces to exploit new positioning or calibration capabilities, add data visualizations, user or system functions, etc.

The role covers all application-related responsibilities: feature design in discussion with SubWAVE system managers, design & architecture, implementation, testing & validation in a real environment.

The missions that will be entrusted to you

- You will participate in the drafting of system and software specifications and in all phases of development of the various software and products of the system
- In partnership with system and hardware experts, you define the most efficient software implementation
- You will participate in the integration of developments into the system
- You respect the various development and quality assurance processes
- You will test the functionality, performance and stability of the application in a real environment.

The key skills we are looking for

- Language **Kotlin, Java**, JNI, (C, C++ & Python appreciated)
- Knowledge of signal processing is a plus
- Development and testing in real customer conditions
- Continuous Integration Development Methodology and Tools (Gitlab)
- Knowledge of GPS/GNSS principles is desired
- A strong sensitivity to the UX/UI, look & feel aspects of the application
- A good command of oral and writing English

About you

With a bac+5 degree in embedded systems, electronics or computer science, you have a strong appetite for cutting-edge technologies and technical challenges and have at least **5 years' experience in Android software development, preferably in Kotlin**. You have already participated in design phases within a multidisciplinary team.

Your open-mindedness, your taste for teamwork and your creativity will be the assets necessary for the success of your missions.

You want to actively contribute to **innovative and ambitious projects** within a large group like **Safran**, while working in a human-sized environment where your impact is real and visible while developing your skills in a demanding context of operational safety.

Do you recognize yourself in this description? Apply and join a company that promotes innovation in the development of its unique products to design the products of tomorrow, dynamism and open-mindedness in listening to and respecting its customers and employees.

✦ What we offer:

- Benefit from the solidity and prospects of a large group like **Safran**, while evolving in a human-sized environment where your impact is real and visible.
- Joining a company where innovation, high standards and benevolence guide our projects and decisions.
- Grow in a learning and stimulating environment, alongside passionate teams, on various projects with an international dimension.

Ready to get on board with us? 🚀 ✦ Send us your CV and a short letter or a few lines about your motivation under the reference ENG-663-EN to jobs@syntony.fr or apply directly from [the career page of our website](#).