



SYDERAL SA designs and produces on-board electronic equipment for space applications since more than 25 years and has participated in more than 50 missions without any failures, for customers such as ESA, NASA, Thales Alenia Space and Airbus. The company has end-to-end engineering competencies in digital and analogue electronics as well as software solutions and has extensive in-house production facilities, qualified to ESA standards. SYDERAL's areas of expertise include Instrument Control Units, Data Management and Processing, Payload Interface Units and Global Navigation Satellite System (GNSS) –based Position, Navigation and Timing (PNT) solutions. SYDERAL SA (Switzerland) has a subsidiary in Poland, SYDERAL Polska Z.O.O., which offers electronic engineering services for space applications.

In order to reinforce our teams, we are searching for a

Embedded GNSS Software Design Engineer

Your Mission

- Join a highly motivated team responsible for the study, development, efficient implementation, and testing of innovative GNSS signal processing algorithms and architectures embedded on a FPGA (or SoC FPGA), for applications in the field of wireless positioning, navigation, sensing, and time transfer.

Your Activities:

- Realization of feasibility studies of technical concepts in the field of high performance wireless positioning, navigation, sensing, and time transfer;
- Contribution or technical lead of research and development projects;
- Design, implementation, testing, and documentation;
- Quality control, error analysis, and maintenance of the source code.

Your Profile:

- MSc or PhD in telecommunications, computer science, or related field (ideally GNSS);
- Experience with embedded wireless software developments in at least one of the following areas:
 - GNSS technologies (e.g., FPGA-based receiver design, GNSS disciplined oscillators, PVT and/or RTK and/or PPP algorithms developments, etc.);
 - Wireless time and frequency protocols (e.g., synchE or PTP over a wireless link);
 - Digital radio developments for wireless telecommunication standards (e.g., 3G or 4G or 5G, CDMA, Bluetooth, etc.).
- Signal processing knowledge with one or more of the following is a plus: FFT algorithms, Kalman filtering, data fusion techniques, statistics and adjustment theory;
- Sound programming skills: embedded C, Matlab or Octave, VHDL, version control tools. Experience with embedded software developments for space applications is a plus;
- Mathematical and analytical abilities;
- Creative, reliable, results-driven and a good team-player;
- Fluent in English speaking and writing; other languages, in particular French, is a plus.

Are you interested in joining our team? Please send us your complete documents (CV, application letter, copy of work certificates and diplomas) at:

SYDERAL SA – Human Resources

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