3D AEROSPACE

3D/2020/ENG/003 Job opportunity - ATE
Junior Satellite Navigation Engineer

3D Aerospace

3D Aerospace (www.3daerospace.eu) is a dynamic European start-up established in June 2018. 3D Aerospace is located at Albi (South of France) in the incubator of the Ecole des Mines. 3D Aerospace has received several funding (local, national and European) in order to manufacture and test its first prototypes in 2020. The company is developing an innovative new generation of GNSS (GPS / Galileo) receiver targeting the 4.0 industry applications.

The company is based on equality gender, positive working atmosphere, hard work transparent communication and continuous improvement. 3D Aerospace proposes a safe environment to make innovation happens. As a high technology company, failures are perceived as an opportunity to learn and to improve as long as a rigorous and structured work has been applied.

Job description

During the period of the contract, the selected candidate will have the following responsibilities:

1. *Radio Navigation Algorithm Designer*

As a radio navigation designer, you will be in charge of:

1.1. Maintaining the system and GNSS including GNSS, INS and receiver subsystem requirements.

1.2. Developing and validating the multi-frequency, multi-constellation PVT algorithm in software (Matlab codes and Simulink models) targeting real-time and continuous engine.

1.3. Development and Implementation of the E6 PPP correction message into the eHermes PVT engine.

1.4. Being aware of the latest development in the industry (technology scouting).

1.5. Supporting the development of the eHermes platform with respect to the implementation of the GNSS algorithm into the embedded software, the development of the smartphone application and the development of the database.

2. *Hybridisation Designer*

As hybridisation designer, you will be in charge of:

2.1. Developing tight coupling algorithms between:

    2.1.1.　the eHermes GNSS block and the IMU block.

    2.1.2.　the eHermes GNSS block and the vision block.

    2.1.3.　the eHermes vision block and the IMU block.

2.2. Implementing the developed algorithms into a Simulink model.

2.3. Supporting the implementation of the algorithms into an embedded system.

3. *GNSS Tester*

Finally, as GNSS tester, you will be in charge of:

3.1. Defining test need and approach and prepare test plan.

3.2. Establishing, prepare and monitor the qualification tests and acceptance tests according to agreed planning, budget and quality.

3.3. Ensuring quality process via preparing appropriate milestones (MRR, TRR, PTR, TRB).

3.4. Design and ensure availability of test MGSE or EGSE depending on test needs.

3.5. Writing mechanical and electronic test procedures to test the eHermes receiver.

3.6. Writing test reports following the completion of the tests.

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Requirements

Soft Skills								Minimum Requirements							
Team spirit								Matlab / Simulink							
Hard-worker								English							
Motivator								French							
Communication								Word – Excel							
Team Mentality								C++							
Willingness and Ability to Learn								Telecommunication degree							

Additional Information

Location: 20 Chemin de la Teuliere, Albi, 81000 France

Desired start of contract: September - October 2020

Duration: An initial 12 months fixed term contract with a possible 18-month extension leading to a permanent contract

Working Language: English

Annual salary: 30 000€ per year (before tax) which is composed of a fixed salary of 27 800€ and bonuses up to 2 200€.

Contact email address: contact@3daerospace.eu

Working conditions: 3D Aerospace is a small team of passionate and hard worker people. Our small size is actually one of our man strengths as it provides agility, flexibility and a sense of family-size company. Our organisation is based on daily scrums and monthly milestones review.

Application process:

1. Please send your CV in English at @contact@3daerospace.eu
2. One case study to prepare offline
3. One interview with 3D Aerospace core team.