

Smart Tank Software for In-Orbit Demonstration

Code: 21/22

Company: Atout Process Ltd

Location: Hampshire

Company Description:

ATOUT is developing a novel 'Smart Tank for Space' (SMARTTS) technology, which can report, in real-time, accurate measurements of the mass of its own fluid contents, the distribution of the contents, how the fluid is moving, and the size and direction of the forces exported to the tank structure due to movement of the fluid. Development of SMARTTS continues with a number of ongoing projects, including for next generation cryogenic stages with partner ArianeGroup, and for storable propellant tanks with partner ESA.

Project Description:

Development of software to enable prototyping and test of key elements for in-orbit demonstration of SMARTTS. Familiarisation with existing suite of software, based on C++ and Matlab. Create a specification for the software required to operate the prototype ground-based demonstrator. Implement software upgrades. Test upgraded software. End of project report.

Applicant Specification:

Degree in Computer Science, Mathematics or Engineering complete or nearing completion. Excellent IT skills. Strong aptitude for mathematics. One or more of: Matlab, Java, C++, C# experience.

Minimum Requirements:

Good knowledge of operating systems. Aptitude for learning new technology. Deadline driven. Excellent communication skills.

Preferred Additional Requirements:

Experience of Electrical Capacitance Tomography. Experience of, or interest in spacecraft systems. Experience in creating graphical user interfaces.

Further details:

8 weeks minimum fixed term contract to be agreed with successful candidate. Virtual Induction Event to be held on 21 June, 2021. Ideally to complete before the start of the next academic year. Salary is £1,500 per calendar month gross.



Closing Date for Applications: 5pm Monday 10 May

Applications should be made through the online form attaching a CV, before the closing date. Please note that elements of the form left incomplete will be deemed to render the application ineligible. They will be checked for eligibility and forwarded to the employer.