



Talent driven
culture.

GNC/AOCS Engineer_UK (M/F)

Ref.ª T202104

Our client is a space systems engineering company, delivering advanced design solutions and turn-key space SW systems. Building on a solid team of highly motivated and specialized engineers, is now a reference player in the European space sector, leading in the areas of Mission Analysis, Guidance, Navigation and Control, Global Navigation Satellite Systems Technologies, Ground Segment Systems and Earth Observation applications.

We are selecting engineers to be integrated in the GNC/AOCS Competence Centre of the Flight Systems Business Unit, to support new growth areas in Guidance, Navigation, and Control (GNC), and in Attitude and Orbit Control Systems (AOCS). The work of the GNC/AOCS Competence Centre is oriented to the design, development, specification, and validation of GNC and AOCS systems for a broad range of aerospace and aeronautical platforms.

Location: Oxford, UK

Main Accountabilities:

The following types of responsibilities are envisioned:

- Specification, design, implementation, and validation of Attitude and Orbit Control Systems, at the different phases of a mission
- Specification and procurement of sensors and actuators for AOCS
- Specification, design, implementation, and validation of GNC algorithms, to be applied to satellites, launchers, and re-entry vehicles, among others

The activities involved may include:

- Interface with the overall system team
- Analysis and trade-off of hardware solutions
- Specification and validation of GNC systems
- Mathematical modelling
- Simulation of stage separation
- Simulation of dynamic systems
- Simulator design, implementation and testing
- Design and implementation of GNC algorithms

If you meet the above requirements, please send your application via email: careers@qsr.consulting with reference to T202104_PRO_GNC/AOCS Engineer_UK (M/F).

Requirements & Qualifications:

Required: A recognized engineering degree (Mechanical, Aerospace, Electrical, Electronic) or a related degree (e.g., Physics, Maths);

Desired: Postgraduate studies (MSc or PhD) with a focus on aeronautical / aerospace engineering and providing a solid background in at least two of the following:

- Orbital mechanics
- Classical control techniques
- Multivariable robust control techniques
- Navigation techniques
- Flight operations
- Basic atmospheric flight dynamics

Professional Experience:

Required: No professional experience required

Desired: Engineer with at least 3 years of experience in the practical application of the domains relevant to the post (relevant MSc & PhD studies would also be considered)

The position will be tailored to the level of experience and additional industrial experience would be viewed very positively.

Technical Requirements:

Required:

- A strong background in control and simulation of dynamic systems
- Practical experience in aeronautical/aerospace GNC/AOCS solutions (experience in ESA/European programmes is welcome)
- Capacity to understand new concepts and apply them to engineering problems
- Good programming skills
- Experience with Matlab and Simulink

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Desired:

- Experience in flight operations in ESA/European programmes
- Experience on atmospheric flight
- Solid theoretical background in GNC/AOCS
- Background on multivariable robust control
- Experience with Python and C

Languages:

- Good level of English, spoken and written

Personal Skills:

- Capability to integrate in and work within a team
- Self-initiative
- Autonomy and self-development
- Responsibility towards the customer and colleagues
- Availability to travel and spend time allocated in different branches

Offer:

- Wage package appropriate to the presented experience
- Career development opportunity
- Contract established directly with the client

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