



Talent driven  
culture.

# Embedded Software Engineer\_ Test platforms and GNC systems (M/F)

Ref.<sup>a</sup> T202107

Our client is a Portuguese 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 looking for an Embedded Software Engineer for Test platforms and GNC systems to be integrated in the Embedded Systems Competence Centre (CC) of the Flight Systems Business Unit. The work of the CC is oriented to the specification, design, development and validation of Embedded Software and Hardware systems for space vehicles, including GNC systems, GNSS, Image processing, verification facilities, etc.

**Location:** Lisbon, Portugal

## Main Accountabilities:

- Participation in the design and implementation of PIL / HIL test-benches, to verify a Guidance-Navigation and Control system, including the development of the real-time simulation environment, hardware and software interfaces, etc;
- Participation in the Software validation and system qualification;
- Participation in the development of the embedded Software for GNC system, including the SW design, development, integration and validation;
- Interaction with other Competence Centers and different technical areas inside the Company, including GNC, GNSS and others.

## Requirements & Qualifications:

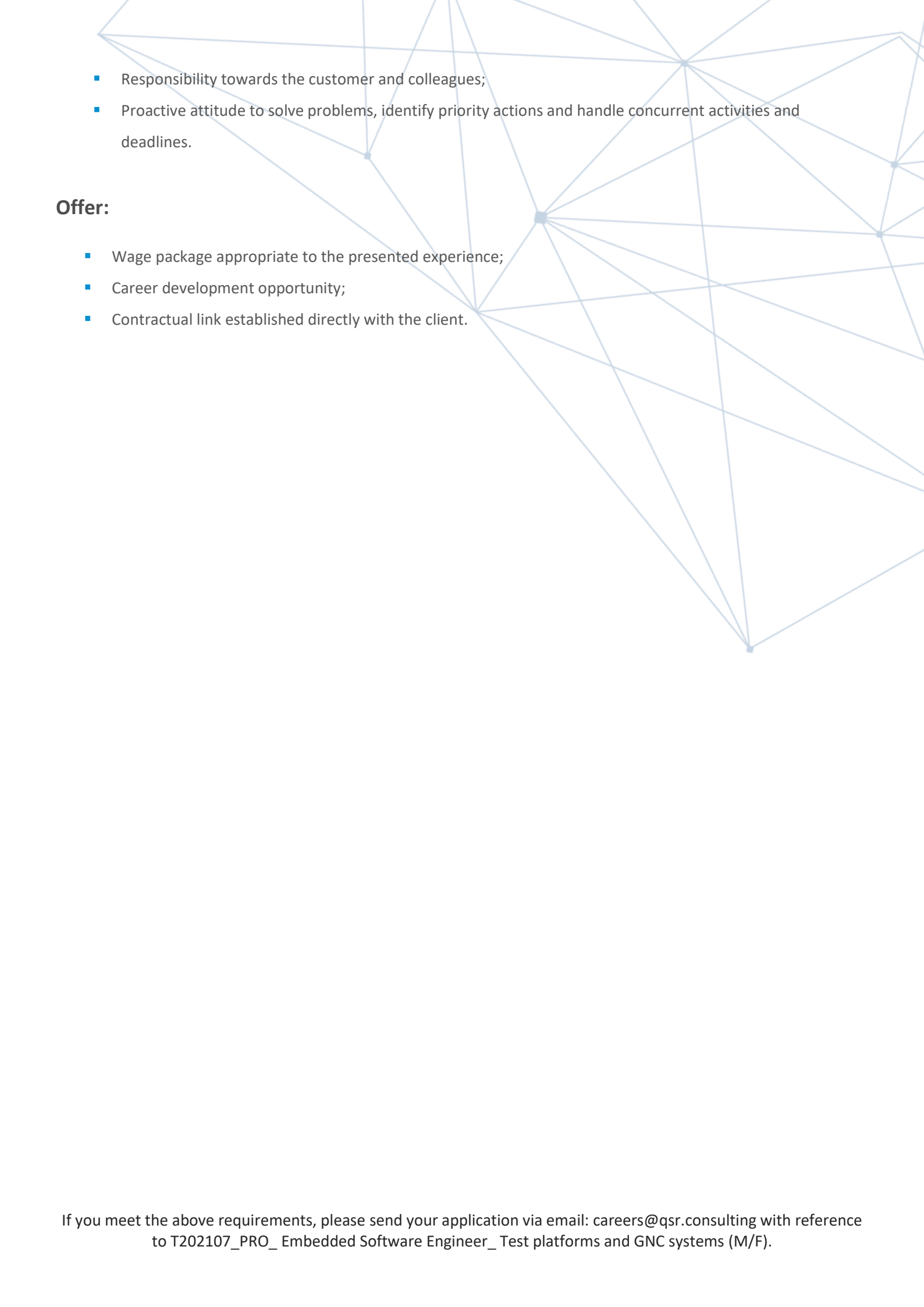
- Required: a recognized engineering degree (Computer Sciences, Electrical, Electronic, Telecommunications) or a related degree (e.g., Aerospace) with demonstrable experience in computer systems and software engineering.
- Desired: postgraduate studies (M.Sc. or Ph.D.) with a focus on software engineering, real-time software or

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embedded systems design.

- At least 1 to 2 years in the practical application of the domains relevant to the post (experience obtained while obtaining relevant MSc & PhD studies could also be considered as applicable for the position). The position will be tailored to the level of experience. Industrial experience in the aerospace sector and/or critical software development will be viewed positively.
- Required:
  - Solid theoretical background in Software Engineering, including testing and verification approaches along the Software life-cycle: SW verification and validation, regression tests, Unit and integration testing;
  - Good programming skills (C, C++, Python) and knowledge of software configuration control (eg. GIT, SVN);
  - Model based design and implementation: Matlab/Simulink design and basic knowledge of automatic code generation;
  - Generation of project documentation, including requirements specifications, SW design, and other engineering documentation.
- Desired:
  - Knowledge in the development of PIL / HIL test benches (RTTB, FVB, SCOE, EGSE, Unit testers) for the validation and qualification of software systems;
  - DevOps infrastructure: Continuous integration strategies and tools (Jenkins, Bamboo, SonarQube, etc...);
  - Practical experience in communication buses, drivers and associated communication protocols (eg. Bus CAN, 1553, SpaceWire, Serial line, etc.).
- Appreciated:
  - Practical experience in development of embedded systems in related industrial context as e.g., ESA programmes, Aero/Automotive/Rail, or other experience in safety critical software (e.g., in European primes, OBSW providers, etc.);
  - Experience or knowledge of SW Coding Standards (MISRA-C);
  - Experience in multithread applications, real-time operating systems (e.g., RTEMS, VxWorks, FreeRTOS, etc.), or embedded computers (eg. LEON, ARM);
  - SW and Systems design documentation methodologies and tools: UML, SysML.
- Language Skills:
  - Good level of English (spoken and written);
  - Appreciated: Spanish.
- Capability to integrate in and work within a multidisciplinary team, in a collaborative international environment with full responsibility on specific areas of the work under development;
- Initiative, autonomy and self-development;

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- Responsibility towards the customer and colleagues;
  - Proactive attitude to solve problems, identify priority actions and handle concurrent activities and deadlines.

**Offer:**

- Wage package appropriate to the presented experience;
- Career development opportunity;
- Contractual link established directly with the client.

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