

(Embedded) Software Engineer / Ground Solutions



Project name	Ground segment Monitor and Control	Category	Postgraduate internship
Company	Amphinicy Luxembourg, SARL	Graduation	Computer Science/Engineering
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Project Context

Amphinicy Technologies Luxembourg (ATL) is a software solutions provider for satellite and space industry. Most of ATL software is managing complex **Ground Segment in Satellite Communication** systems, including In-Orbit Testing solutions, M&C of ground stations and equipment, Ground Segment simulations, TT&C and Data Acquisition systems, etc. ATL closely collaborates with leading satellite operators, equipment manufacturers, and space and humanitarian agencies.

ATL is currently involved in a project where it is leading the software development of innovative satellite data acquisition solution. More precisely, **embedded software** needs to be developed to monitor and control data acquisition unit and provide interfaces to internal and external systems.

Besides the project mentioned above, there are several other opportunities in Ground Segment where knowledge and expertise of Software Engineer (not necessarily embedded) are needed. These opportunities can be discussed during the Skype interview, to find the best fitting position.

Tasks	<p>Work on innovative project with a team of satellite engineers, operators and experts:</p> <ul style="list-style-type: none">• Contribution to (sub) system definition phase:<ul style="list-style-type: none">○ Requirements Definition○ Subsystem Architecture and Design○ Test plan• Description of configuration, measurement, data access• Implementation of the GPP Embedded Software including data exchange outside the boundaries of GPP (through internal and external interfaces):<ul style="list-style-type: none">○ Defining and implementing interface towards internal M&C○ Defining and implementing interface towards the MMI and external systems• Embedded SW testing on simulated HW and real HW• Document design solutions and test/validation results
Skills	<ul style="list-style-type: none">• Practical knowledge of object-oriented languages such as Java, C#, Python• Strong experience with Linux operating systems• Proficient with relational database concepts and practices• Good knowledge of software architecture/design tools (UML)• Fluent in English
Musts	<ul style="list-style-type: none">• Strong motivation to extend knowledge to related disciplines (satellite operations, satellite engineering, ground software and hardware, baseband and TT&C chain)• Moving to Luxembourg for 6 months (during Internship)
Good to have	<ul style="list-style-type: none">• Continuous integration (e.g. Jenkins) experience• JEE frameworks knowledge (e.g. JBoss)• Experience with validation of software/communication solutions