

New Open Position



VAC_080A_Aerospace_Stress Engineer_180815

Department	Structures
Position	Rocket Stress Engineer
Description	Aerospace Stress Engineer
Responsibilities	<ul style="list-style-type: none">- Performing analysis to demonstrate structural integrity and strength aspects associated with Aerospace primary and secondary structures, equipment systems, components and integration according to the technical requirements within the scope of the Project.- Pre- and post-processing of components and assembly models. Meshing, advance load and boundary conditions definitions, material definitions.- Perform Linear Static and Dynamic Analysis especially focused on metallic and composite materials behaviour and failure modes.- Participate in technical reviews and configuration decisions as an expert in the structural strength discipline.- Involved in all steps of the project, from the first theoretical analysis to the final ground testing.- Participate in the release process of detail, sub-assembly, general assembly and installation drawings, preparing the necessary reports, memos and formal compliance documents (written in English) in order to demonstrate and check that the design satisfies all the stress requirements.- Liaise with other functions when required to ensure stress requirements are fully integrated.
Required Competencies	<ul style="list-style-type: none">- Bachelor's or Master's degree in Aeronautical Engineering.- Experience with hand calculations.- In-depth knowledge of engineering principles and design techniques relation to composite materials, classical laminate theory and finite element modelling techniques applied to sandwich and monolithic parts.- In-depth knowledge of aerospace structure sizing. Rockets and airframe design. Thin walled structures, metallic pressure vessels, large cylindrical shells, bolted joints analysis, lugs...- Good understanding of spacecraft manufacturing methods and processes.- In-depth knowledge of Linear and Non-Linear Static analysis for metallic components.- Good understanding of buckling studies and failure modes of thin walled structures.- Knowledge in fatigue analysis.- Proficient in using Finite Element Analysis principles and associated tools.- Deep knowledge on implicit FEM analysis, Nastran solver is mandatory.- Knowledge in thermal analysis.- Self-motivated and able to work under pressure to meet deadlines, dealing with situations that are constrained by time and managing different tasks at once.- Proactive and good team worker.- Fluent Spanish and English.

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Desired Competencies	<ul style="list-style-type: none">- Experience with HyperWorks/HyperMesh and OptiStruct is desirable.- Knowledge in welded joint analysis and fatigue is highly valued.- Good Knowledge on MatLab and VBA Excel is desirable.- Experience with static ground testing is desirable.
Experience	<ul style="list-style-type: none">- Minimum of 4 years of advance structural analysis experience in static and dynamic load cases, metallic and composite materials.- Experience in Rockets structure analysis is highly valued.- Knowledge in thermal analysis is desired.
Starting date	February 2019
Open positions	+10
Work place	Elche (Spain). Occasional travels to Teruel and Huelva.
Type of contract	Full time (3-months trial)
Salary	27,300 €