

New Open Position



VAC_090A_Aerospace_Stress_Dynamic_Engineer_180815

Department	Structures
Position	Structural Dynamic Engineer
Description	Aerospace Stress Engineer focused on Dynamic Analysis
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 dynamic, normal modes, vibration, sine-random environment SRS analysis.- Contributes to the proper development of the projects supporting the Design office providing specialized technical assistance and advices from the stress analysis point of view.- Involved in all steps of the project, from the first numerical calculations to the final vibration testing.- Participate in technical reviews and configuration decisions as an expert in the structural strength discipline.- 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 vibration analysis, aerospace material science, structural design and reliability.- Experience in vibration environment for rocket's structures, spacecraft or aerospace components is highly valued.- Good understanding of spacecraft manufacturing methods and processes.- Deep knowledge on Dynamic Analysis and Vibrations. Experience performing normal modes, sine-random analysis, SPL, shocks.- Experience performing dynamic test on structural components is desirable.- Proficient in using Finite Element Analysis principles and associated tools.- Deep knowledge on implicit FEM analysis, Nastran solver is mandatory.- 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">- Good knowledge on MatLab and VBA Excel is desirable.- Experience with Impact and shock analysis is desirable.- Knowledge in Ansys is desirable.- Experience with HyperWorks/HyperMesh and OptiStruct is desirable.- Knowledge in composite materials is desirable.- Experience in Rockets vibration environments is highly valued.
Experience	<ul style="list-style-type: none">- Minimum of 4 years of advance structural analysis experience in static and dynamic load cases, focused on vibration, sine-random environment and SRS analysis for metallic or composite materials.
Starting date	February 2019
Open positions	+3
Work place	Elche (Spain)
Contract	Full time (3-months trial)
Salary	27,300 €