

Structural FEA Engineer

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Job Description

We are offering an outstanding opportunity for experienced FEA engineers with a Ph.D. to join our Simulation & Modeling Group at Sugar Land, TX. The applicant will closely collaborate with mechanical engineers in US and Europe to improve product reliability and performance in the harsh conditions encountered in a variety of oilfield business segments. The main tasks will be FEA studies in technically challenging areas such as non-linear solid mechanics, metal plasticity, viscoelastic materials, shock, vibration, heat transfer, composites and fluid/structure interactions.

Requirements

1. A Ph.D. degree in Mechanical Engineering, Engineering Mechanics, Aerospace Engineering, or Civil Engineering with a Master's degree in Mechanical Engineering and 5+ year industrial or post-doc experience.
2. Coursework on Statics, Strength of Materials, Energy Methods, Vibration, Elasticity, Plasticity, and Finite Element Method is essential. Work experience with fracture mechanics, damage mechanics, viscoelasticity, structural dynamics, materials engineering, composites and mechanical design is highly preferred.
3. Expertise with at least one commercial FEA package, Abaqus or Ansys Classic/Workbench, is a requirement. Experience with other FEA packages and with development of FEA codes using FORTRAN, C or C++ is a plus.
4. Excellent oral and written communication skills in English.
5. Autonomous and creative approach towards challenging problems.

Contact

Applicants should email resume and cover letter to Sepand Ossia, sossia@slb.com.