

## Internship Announcement

Title	Structural FEA Intern
Category	Internship in Industry
Employer	Schlumberger Technology Corporation
Location	United States, Texas, Sugar Land
Opening Date	05/20/2008

Schlumberger is the leading supplier of technology, project management, and information solutions, trusted to deliver superior results and improved E&P performance for oil and gas companies around the world. Through our well site operations and our research and engineering efforts, we are working to develop products, services and solutions that optimize customer performance in a safe and environmentally sound manner. Reflecting our belief that diversity spurs creativity, collaboration, and understanding of customer's needs, we employ over 70,000 people of more than 140 nationalities working in 80 countries. With 25 research and engineering facilities worldwide, we place strong emphasis on developing innovative technology that adds value to our customers. In 2007, we invested \$720 million in R&D. For more information about Schlumberger, please refer to our web site <http://www.slb.com> . Schlumberger is an Equal Opportunity Employer.

The Simulation and Modeling group at the Sugar Land Product Center, Sugar Land, TX, has established global reputation for quality engineering services on structural, thermal, and fluids problems within Schlumberger. We are looking for a high-energy, self-motivated Ph.D. candidate who is seeking to solve real, challenging technical problems. If you have the academic qualifications listed below as well as exceptional communication skills, please submit your resume to [KL2@slb.com](mailto:KL2@slb.com).

### **Job Description**

The objective of this 6-month internship is to analyze and optimize the design of a downhole tool used for oil and gas drilling and measurement operations. The selected candidate is expected to contribute to the optimization of the design, which will exhibit excellent thermal performance as well as be structurally safe against bending moments and shock loads.

## **Requirements**

1. Ph.D. candidacy in Mechanical Engineering, Aerospace Engineering, Civil Engineering, or Engineering Mechanics
2. In-depth understanding of continuum mechanics, finite element methods, shock and vibration, fatigue, heat transfer, engineering design concepts, and materials engineering.
3. Experience in modeling and simulation of large-scale assemblies subjected to thermal and rapidly varying mechanical loads.
4. Solid knowledge of ABAQUS is essential. Experience in Ansys Classic/Workbench is a plus.
5. Experience in development of user subroutines for ABAQUS is a bonus.