



Structural Integrity Associates, Inc. has an immediate need for a **Civil/Structural Engineer** in our San Jose, California Office.

The Civil/Structural Engineer will be responsible for engineering consulting work supporting the energy industry. The Civil/Structural Engineer will participate in project teams as a technical specialist with developing expertise in the application of civil engineering principles, structural analysis techniques, seismic design, seismic qualification methods, structural dynamics, and the finite element method.

The work environment consists of teams of engineers applying advanced engineering analyses and innovative techniques to address client needs. Each project team is usually led by an industry expert and is composed of engineers from various engineering disciplines, such as mechanical engineering, applied mechanics, structural dynamics, stress analysis, fracture mechanics, and materials science.

Responsibilities

- Analysis of structures, systems, and components using both classical and state-of-the art methodology
- Finite element modeling and analysis using ANSYS and LS-DYNA
- Dynamic analysis and seismic qualification of structures and components
- Drop and impact analyses
- Application of response spectrum and time history methods for seismic analysis
- Code check of structures, systems and components applying industry guidelines
- Participation in design and modification projects for power plant structures and components

Minimum Requirements

- M.S. degree in Civil Engineering or related engineering discipline
- 0-5 years of relevant experience
- Structural dynamics, matrix structural analysis, and steel and concrete design coursework
- Advanced coursework in finite element analysis
- Experience in solid modeling using finite element analysis (FEA) software
- Strong written and verbal communication skills

Desired Experience

- Master's thesis topic involving application of the Finite Element Method
- Direct experience using LS-DYNA, ANSYS or other commercial finite element codes
- Familiarity with standards such as ASCE 7, AISC Steel Construction Manual, ACI Building Code
- Background in seismic engineering and/or experience generating floor response spectra
- Experience using SolidWorks
- Engineer in Training (EIT) Certification or Professional Engineering (PE) License



Structural Integrity Associates, Inc.[®]
Experts in the prevention and control of structural and mechanical failures

About Us

Structural Integrity Associates, Inc., founded in 1983, is an engineering consulting firm of approximately 280 highly qualified professionals and support personnel. Structural Integrity Associates, Inc. offers products and expertise that span all aspects of structural integrity in power plant equipment and other industrial components including:

- Structural dynamics and impact analyses
- Fracture mechanics
- Stress analysis
- Corrosion, fatigue and creep analysis
- Metallurgy and materials
- Nondestructive testing
- Structural monitoring and instrumentation
- Failure analysis
- Vibration testing and analysis

Why Consider Structural Integrity?

- Competitive salary and benefits including company-paid benefits
- Employee stock ownership program (ESOP)
- Outstanding industry reputation
- Ranked among the 100 hottest consulting firms in the U.S.
- Entrepreneurial spirit

To apply, please visit our career page at: <http://www.structint.com/our-company/careers> and/or send your resume to jobs@structint.com.

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