

Based in Calgary, Trican Well Service is Canada's largest pressure pumping company with operations in western Canada and around the world. Trican is founded on the principles of service excellence, operational safety and technical expertise, and we are proud to have received numerous accolades as a top employer. If you are a motivated, service-oriented team player with excellent attention to detail and strong communication skills, we invite you to apply for the following position:

Senior Downhole Tool Design Engineer

The Senior Downhole Tool Design Engineer performs conceptual and detailed design, analysis and validation testing on new downhole tools and completion systems, and acts as a mentor to less experienced members of the design team. Periodic international travel will be a requirement of this role.

Responsibilities:

- Support the development of cutting edge downhole tools, processes, and completion equipment.
- Contribute to the completion of product development according to time, financial, and technical metrics established through project expertise and management.
- Perform engineering calculations and thorough analysis of components and systems according to recognized engineering standards.
- Generate CAD models of potential designs for design reviews and manufacturing purposes.
- Interface with machine shops and monitor manufacturing of prototypes.
- Shop testing of prototypes including test plan development and design validation testing.
- Support field implementation of new products including training of employees on new tools, processes, and procedures
- Investigate root cause analysis of issues associated with new and existing products.
- Offer analysis of problems relating to components that failed in the field and during prototype testing.
- Generate downhole tool documentation for new products including operating manuals, fishing drawings, and other project documentation.
- Provide a competent level of technical communication to internal and external customers as well as worldwide field operations.
- Conduct peer reviews of colleagues' work.
- Take an active role in the design review process for various projects.
- Fulfill role of ambassador for Trican when meeting with customers and when working in the field.
- Offer continual development of understanding of the Oil and Gas Industry through field experience, familiarization with technical manuals, and attending technical meetings.
- Work effectively on multiple projects.

Experience & Skills:

- BS degree in engineering / applied science from an accredited university. Graduate Level Mechanical Engineering degree preferred.
- Minimum seven to ten years of design experience relevant to downhole tools.
- Experience demonstrating ability to conduct independent work with the proper application of engineering principles in problem solving.
- Experience with Oil and Gas field operations, specifically coiled Tubing and hydraulic fracturing techniques preferred
- Designed experience related to downhole tools or completion equipment preferred



- Capable of “hands on” work in a shop setting, in a safe manner.
- Capable of travel to remote field locations locally and internationally.
- Experience with Ansys FEA and/ or Fluent CFD preferred
- Autodesk Inventor experience preferred
- Effective communication skills.
- Ability to work well as part of a design team, and able to work independently when required.
- Possess broad knowledge of relevant products, materials, processes, procedures, and oilfield industry practices.
- Valid class C driver’s license with clean driver’s abstract.
- Design experience relevant to downhole tools or completion equipment preferred
- Autodesk Inventor experience preferred
- Ansys FEA and / or Fluent CFD experience a plus
- Creative individual who has invented technologies to which patents have been awarded preferred
- Experience with oilfield service operations, specifically coil tubing and hydraulic fracturing techniques preferred

What Makes Us Attractive:

- Excellent base salary with one of the best benefit programs in the industry
- This position offers a competitive profit sharing bonus based on company and individual performance
- Global technical leader within our industry
- Above-average career advancement opportunities

Please forward your cover letter and resume, in confidence, to:

Trican Well Service Ltd.
2900, 645 – 7th Avenue SW
Calgary, Alberta 2P 4G8
E-mail: dkorkie@trican.ca | Fax: (403) 476-6867

Please visit our website at www.trican.ca for additional information about our company.

We thank all applicants, however, only those selected for an interview will be contacted

