

Senior Pipeline Risk Engineer

Calgary, AB

THE ROLE

As a Senior Pipeline Risk Engineer, you will contribute to the development and implementation of strategic technical solutions for our clients and identify opportunities that will generate a new edge for Dynamic Risk's products and services within the pipeline integrity market. The Senior Pipeline Risk Engineer is a client-facing role requiring strong working knowledge and experience in pipeline risk, reliability methods, and integrity. They readily demonstrate an ability to be agile and adaptable, possess superior communication skills.

In this role, you will have the opportunity to demonstrate your strong work ethic, find the right solutions for our clients in a team environment, develop your leadership and client-facing skills, exercise independent judgment, and learn from the industry's top talent. Our top performers thrive on working in a fast-paced and dynamic environment, where they contribute their technical expertise to client solutions.

Our ideal candidate demonstrates a strong desire to be a key contributor within a team of like-minded professionals striving to leverage advanced risk and reliability concepts to improve upon the current state of pipeline system asset risk and reliability assessment models.

ABOUT DYNAMIC RISK

Dynamic Risk is a widely recognized integrity and risk management company in the energy sector. We've been delivering our expertise and solutions since 1996 and we've become the industry leading provider of pipeline integrity management solutions. We are the only provider who combines science, engineering and technology to help our clients operate efficiently while at the same time improving pipeline safety and system reliability.

Dynamic Risk is a privately held company, achieving double digit growth year over year, for the past eight years. We are headquartered in Calgary, Alberta with US Operations located in Houston (The Woodlands). Our future is bright and we are actively expanding our capabilities and services to meet the needs of over 100 clients in North America.

WHY JOIN US?

Dynamic Risk is committed to creating extraordinary value for our clients through technology and people. Our values define what we stand for and believe as a company, and our employees will tell you they are lived every day.

As a member of the Dynamic Risk team you'll work in a collaborative environment where individual contribution and leadership is encouraged, going above and beyond is recognized and rewarded, where

technical challenges are inspiring and valued, and where you'll have direct influence on the Company's direction and success.

WHAT YOU'LL GET TO DO AS A SENIOR PIPELINE RISK ENGINEER

- Perform pipeline integrity reliability and risk analysis using standard tools and techniques;
- Determine probability of failure based on historical inspection data, and calculation of consequences (financial, environment, health and safety);
- Work within a team to develop reliability analysis for assets. This includes reliability models (e.g. Monte Carlo simulations, Bayesian Network, Fault Tree, Decision Tree) for integrity threats and hazards
- Conduct more detailed investigations for lines/segments/features that do not meet integrity reliability targets following existing processes;
- Calculate risk of failure as per API 580 and develop effective solutions to reduce the risk;
- Conduct engineering studies and investigations, prepare and present findings and recommendations to our client's senior leadership;
- Produce high-quality technical reports and provide technical review and approval of the work of others;
- Provide input regarding the development and implementation of policies, standards and procedures for the engineering and technical work performed in the department;
- Demonstrate hands on knowledge of risk management, risk algorithm development, threat and consequence risk assessment, failure investigations, and in-line inspection data analysis is a requirement;
- Lead engineering assessment projects using reliability and quantitative risk based approaches to support clients' decision-making processes;
- Take ownership of issues relating to engineering projects (as part of project team) and in helping to deliver the strategic value of the engineered solution;
- Participate in the development of customized Integrity Management Programs and practices/standards;
- Apply critical thinking, root cause analysis and creative problem solving to articulate findings, solutions, and recommendations to clients;
- Provide guidance to clients in integrity program scoping, maintenance planning and overall integrity management projects;
- Mentor and further develop junior engineers;
- Author technical reports and conduct peer reviews of other engineer's work or completed engineering projects;
- Contribute and identify new features for ongoing database, software and GIS development and participate in its design;
- Participate in industry committees (ASME, CSA, NACE, API, etc.) and conferences (IPC, PPIM, etc.)
- Provide verbal and written project reports for external clients;
- Corrosion, cathodic protection, in-line inspection, direct assessment experience desired;

- By example, establish and maintain a working environment conducive to positive morale, integrity, creativity, and a team-oriented workplace.

WHAT YOU'LL NEED TO BE SUCCESSFUL

- A Bachelors or Master's degree in engineering (mechanical, chemical, metallurgical, civil) or a related technical field;
- A minimum of eight years combined experience in any of the following disciplines or industries:
 - Pipeline integrity management program development and implementation;
 - Pipeline risk and reliability analysis;
- Eligible for registration as a Professional Engineer, preferred but not required;
- Strong technical skills and an interest in continuous professional development;
- Expertise related to the development and/or implementation of integrity management programs;
- Excellent working knowledge of pipeline industry standards and Canadian federal and provincial pipeline regulations; e.g. CER OPR, AER, BCOGC, CSA-Z662-19, CFR 192/195, ASME, NACE and API industry standards and recommended practices;
- Previous experience with a pipeline operator is considered a significant asset;
- Excellent listening skills and the ability to communicate and lead client risk related workshops;
- Strong written communication skills and demonstrated ability to draft comprehensive risk reports for external clients;
- Autonomous individual who is able to work successfully to defend and communicate the logic in a solution;
- Desire to work in an environment where all team members are encouraged to identify solutions;
- Ability to work successfully with minimal supervision;
- Professional, polite and respectful; and
- Ability to exercise independent judgment and discretion in performing tasks.

Apply at: careers@dynamicrisk.net

Dynamic Risk is an equal opportunity employer offering a competitive compensation package, and unlimited potential for professional growth and development. We are a premier provider of pipeline integrity solutions in North America and we excel at providing engineering expertise through technology.