

Joint venture companies



Job Title: Technical Process Safety Specialist

Reporting to: Process Engineering Team Lead

Location: Kitimat

There's never been a better time to be working with LNG Canada.

Why? Because we're building Canada's first large-scale LNG facility underpinned by safety, continuous improvement, quality execution and ethics and compliance. Our industry-leading liquefied natural gas (LNG) export facility will provide the world's cleanest LNG, with the lowest carbon intensity.

This is your opportunity to be part of history, in an environment that will challenge you to apply all your skills, and where you can learn with a diverse team of highly experienced industry professionals and mentors.

LNG Canada maintains a healthy, respectful, and safe environment for all our employees, contractors, partners, and communities. Protecting our people, community and our operations is our top priority. Our project has committed to meeting some of the strictest regulatory standards in the world.

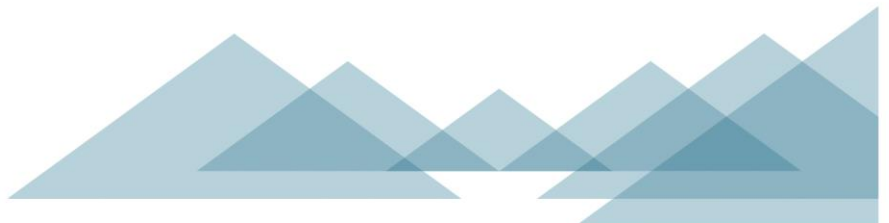
With gratitude and respect LNG Canada acknowledges our facility is under construction and will be operated on the traditional territory of the Haisla Nation. We also gratefully acknowledge the First Nations in our project area and along our shipping route.

Our Vision: To be the leading LNG export company in British Columbia and the world.

Our Mission: To set the benchmark for economically, environmentally and socially responsible LNG development in Canada.

Our Values: Respect, collaboration, integrity and safety.

Come join the team making Canadian history!



About the Role

This role provides Technical / Process Safety supports to LNG Canada Development for both Asset readiness and projects.

The role key responsibilities are to support brownfield projects and enhance LNGC's Process Safety performance and work on improvement plans for effective compliance to HSSE & SP Control Framework. This would entail detailed understanding and contribution towards Process Safety Standards and Regulatory requirements, overseeing management systems, and promoting the highest standards of Process Safety culture, practices, and compliance, reflecting LNGC vision.

The candidate plays a pivotal role in integrating process engineering and technical safety expertise supporting end-to-end project delivery starting from concept to brownfield execution. This role will play a key role in LNGC asset management system elements of Management of Change and Mitigate Threats to availability, with Asset Integrity and Process Safety Management deeply enshrined in the delivery.

This may include setting up site management systems and standards, ensuring that the Process Safety Management (PSM) processes are implemented in line with global standards, and in providing multi-disciplinary leadership in implementing process technical safety practices and improvements for first two years of the role. The role also requires working closely with various teams in LNGC, to deliver the site plan for Process Safety, including the Process Safety Plan whilst moving from Execute to Operate phase.

The candidate will be a key member of the LNG Canada Technical Safety team. The role will report to Process Engineering Team lead and act as a bridge for technical integration as well as concept development and front-end management focal point and ensure process safety is at the foundation for decision making. The reporting line will ensure the competence of the engineer is a hybrid for process safety and process engineering skill pool to deliver necessary holistic solutions.

The role reports to Process Engineering Team lead.



To succeed with us in Technology Department, we need your enthusiasm to:

- Demonstrate deep appreciation and commitment towards Technical safety and sustainability in all phases of LNGC.
- Display a strong positive attitude to propose improvements in our dynamic processes, ways of working and our overall performance as we evolve into a fully operating asset post CSURU.
- Pride and care when dealing with people, your work, and know that every day, you have an impact on safety, your community and environment.
- Always display strategic thinking in developing technical systems to develop and implement sustainable plans for LNG delivery to markets.
- Develop strong working relationships within and outside your team to boost co-operation and a One Team approach transcending into multi-disciplinary delivery.
- Utilize flexible and incremental innovation thinking with well-developed problem-solving skills and a proactive prognostic mindset.
- Have courage to hold strong to views when challenged or challenging others with clear value drivers especially to preserve long-term value.
- Drive knowledge sharing, mentoring, and coaching to accelerate team competence.

You will use your expertise to:

During Project Execute Phase (Construction, pre-commissioning, commissioning, start up, ramp up)

In the area related to Technical & Process Safety (while transitioning to operate phase)

1. Apply applicable standards and ensure that the asset for its lifecycle is safe to operate when it comes to processing plant and all interfaces like CGL, BC Hydro, expansion etc.
2. Propose opportunities and concepts that enhance process safety and secure asset integrity.
3. Support Technical Safety Lead in quality delivery of process safety excellence to LNGC asset readiness and brownfield projects delivery.
4. Contribute to development and implementation of a risk based, sustainable and effective Process Safety Management program for LNGC operations.



5. Act as a Technical Safety support/ expertise to a number of initiatives / identified work processes/ projects within LNG Canada.
6. Identify, assess, and document HSE Risk reduction and control strategies for significant hazards in close coordination with multidisciplinary teams.
7. Provide Process Safety guidance and support all disciplines including Operations, Engineering and Maintenance to ensure safe start-up and initial operation of the plant and brownfield projects.
8. Support the delivery of process safety fundamentals and other integrity elements programme in LNGC.
9. Support the Commissioning and Start Up of LNG Canada in the area of technical/ process safety covering Pre-Start-Up Safety Reviews (PSSR), Management of Change (MOC) reviews, HSSE in transition.
10. Involve in preparing process safety procedures and contribute to review of operating and maintenance procedures.
11. Support regulatory engagement activities on process safety risk management.
12. Support HSSE risk assessment / workshops: HAZIDs/HAZOPs, Quantitative Risk Assessments (QRAs), Facility Siting/Layout Studies, Physical Effects Modeling, BowTies, SIL, SIMOPs review, Constructability, etc. by applying right tools and techniques.
13. Support LNG Line of Defense (LOD) audits, health checks and associated assurance on Process Safety and related processes like MOC.
14. Ensure that own discipline engineering and design work is successfully delivered and appropriate reviews are conducted.
15. Carry out appropriate discipline and inter discipline checks and reviews of engineering and design work.
16. Contribute to the development of execution contracting strategies that compliment designs, construction methods and operating methods
17. Apply risk management & ALARP concepts dealing with day-to-day Technical Safety issues. This includes stepping up to provide guidance on process safety risk management to internal and external stakeholders where require – this is a stretch role and is an opportunity for development.



In the area related to Brownfield modifications in Operate (run and maintain) phase while continuing with responsibilities in Process Safety area

- Act as a lead focal point/ technical integrator, liaison with external vendors and other service partners to execute projects on the site with responsibilities ranging from Terms of Reference preparation to cost/schedule control. Close co-ordination with Asset brownfield project team will be required. These projects will be in the area related to plant performance, process safety and plant integrity improvements including flare reduction.
- Build and nurture a close working relationship with other Technical and engineering SMEs through networking and execution of studies and projects.

To be successful, you will have:

- A chemical (or mechanical) engineering degree or equivalent
- 5- 10 years of progressive technical experience in design and operation of hydrocarbon processing facilities such as refining, chemical plants, gas processing/ LNG plants etc.
- Knowledge and experience of Shell DEPs and industry codes related to process safety, such as NFPA 59A and CSA Z276 are advantageous.
- Working knowledge in Process Safety Management Systems
- Working knowledge of technical risk assessment tools such as HAZID, HAZOP, BowTies, SIL, physical effects modeling and Quantitative Risk Assessment (QRA).
- Prior experience of delivering brownfield projects as a technical integrator will be an added advantage
- Exposure to gas processing, LNG liquefaction technology, LNG storage and loading systems and credible exposure to utilities equipment will be added advantage.
- Self-assured, confident, able to execute position responsibilities with minimal guidance, demonstrated experience to work under increasing and shifting priorities/ demands.
- Sound systematic approach to technical and multi-disciplinary challenges.
- Ability to contribute to decision support and assurance as well as carrying out hands on technical evaluations.
- Communicate with internal and external interfaces with strong spoken and written communication skills.

This role requires that you:

- **Be legally entitled to work in Canada (i.e., by way of Canadian citizenship, permanent residency, or valid work permit)**
- Live in the beautiful District of Stikine (Kitimat/Terrace). For applicants located outside of the region, you are encouraged to explore what Kitimat has to offer in terms of lifestyle including schooling, local amenities, outdoor adventure, and housing, to ensure Kitimat is where you would like to call your new home.
- APEGBC Professional Engineering Designation or ability to register from another province is required.
- This role will directly start in Kitimat in 1st Feb 2023.
- Kitimat Operate : Work an office hours schedule, approximately 40 hrs./week, 5 days per week, with flexibility to balance off time hours when required.
- Kitimat CCSU Phase: 50hrs per week 10/hr. days, not always Saturday and Sunday off.
- Some travel to Calgary as required.
- Are willing to comply with LNGC's drug-free and harassment-free work environment and comply with all safety policies and procedures.
- Undergo a pre-placement medical assessment of your fitness for duty, and Pre-Site Access testing for alcohol and specified drugs.
- Valid Driver's license

We Offer:

- A Comprehensive LNG Canada relocation package (if required)
- A full suite of benefits including a flexible Medical and Health plan
- A Defined Contribution Pension plan with a matching program
- A competitive vacation offering to ensure a work life balance
- See attached document for more information about Kitimat and LNG Canada.

About Us:

LNG Canada is a joint venture comprised of Shell Canada Energy (40%) and affiliates of Petronas (25%) PetroChina (15%), Mitsubishi Corporation (15%) and Korea Gas Corporation (5%). The joint venture is building a liquefied natural gas (LNG) export facility in Kitimat, British Columbia.



LNG Canada sets out to be a project of choice for British Columbia and Canada. Safety, shared economic value, environmental performance and social performance are our highest priorities. We have partnered with governments, local communities, and First Nations to maximize shared value.

Do you have a desire to learn and become part of an organization with a supportive and collaborative culture? Concerned you don't meet every job requirement? Studies show diverse candidates are less likely to apply unless they feel they meet every single qualification. LNG Canada hires for character and trains for skill. We're dedicated to attracting a diverse and inclusive workforce, representing the communities in which we live and work. We encourage you to apply today.

