

Joint venture companies



**Job Title: Systems Lead (DCS & PCD-I)**

**Location: Kitimat, HUB – Lower Mainland Vancouver, BC**

**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 of 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

Reporting to the PACO Team Lead, the Systems Lead is a key member of the Technical Support Organization which is part of the Operations Team.



The Systems Lead role is responsible for developing and implementing the Process Control Domain Integrity & security (PCD-I) work processes to execute all of the LNG Canada Asset requirements and Basic Process Control System (BPCS).

The primary function of the System Leads is the continuous improvement of the PCD-I & control system using the digitalization and advance diagnosis strategies to prevent plant/unit trips due to Instrumentation.

Demonstrating event after event improvements in HSSE, control system, field Instrumentation robustness, process availability and process safety.

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

- Excellent communication (verbal and written) and interpersonal skills that **inspire and energize** people and create a clear sense of direction and priorities.
- Ability to **positively influence** people, effectively drive work processes and ensure compliance with policies
- Ability to **drive execution** and stretch the performance of people with a wide range of capabilities
- **Comfortable with change** and ambiguity such that informed decisions are made without undue delay
- **Courage** to hold strong to views when challenging current practices to encourage exploration of new ideas that drive improvement, i.e., Digitization
- Demonstrate a strong personal commitment to Diversity and Inclusion through **collaboration** across functional and cultural boundaries
- **Develop the capabilities** of others through coaching, mentoring, and providing growth opportunities that help people build their careers

**You will use your expertise to:**

**During EXECUTE phase of the project (including module fabrication, pre-commissioning ,commissioning, start up and ramp up):**

- Streamline the PCD-I requirements and define the deliverable according to the latest Shell DEP and Recommended Practices (RPs)
- Stipulate the requirement in Asset Management System (AMS) and closely follow-up through Integrated Activity Plan (IAP)



- Accountable to meet all PCD-I requirements on timely manner to enable LNGC Asset Ready for Initial Operation (RIO)
- Accountable for BPCS (Yokogawa DCS) and all associated hardware & software including integration with SIS (Yokogawa ProSafe).
- Support writing governance procedures and guidelines based on site experience gained during CSU phases, first 200 cargos for DCS and PCD-I.
- Work together with SIS Team Lead to meet the common goal of high performing and robust Integrated Control & Safeguarding System (ICSS) PACO Team.
- Engage with the wider Technical Support, Maintenance, Technology, Commercial and Production Team to build a strong and coherent operations culture
- Support assurance activities at site to ensure EPC deliverables meet the requirements of the Lump Sum Contract, Standards, Industry Best Practices, Inspection Test Reports (ITR's) and operational readiness requirements.
- Support punch listing at handover to ensure agreement with A, B and C punch items.
- Drive and integrate digital and data solutions into new ways of working, promoting, and delivering a culture of continuous improvement (CI) and future proofing our business with artificial intelligence (AI) and machine learning (ML)
- Initiate non-compliance report (NCR) for items not meeting EPC's deliverables, substandard construction and demonstrate a good mitigation plan.
- Initiate Manage Threat & Opportunity (MTO) & MOC with proper risk assessment and mitigation plan if potential HSSE, reliability/availability/operability concerns are observed.
- Collaborate with EPC and site construction team to display a One Team mindset and promote a learner attitude.
- Find opportunities for utilizing advance diagnosis alerts and alarms, failure mode prediction, digitalization Vs "the way we have always done it".
- Provide a cover for other PACO leads to support CSU activities.
- Support to digital team to develop solutions.
- Support E-SPIR for Yokogawa hardware.
- Support connected worker and augmentation workforce vision for LNGC.
- Act as integrator across all the PACO functions during CSU and initial startup period.

### During OPERATE phase:

- Support Asset team with assurance of fully compliance PCD-I on DCS/SIS.
- Lead by example in demonstrating excellent HSE compliance behaviours and ensure MOC process is strictly followed.
- Carryout field investigation of any Control System/SIS/Instrumentation failure that leads to plant upset or trip or malfunction.

- Accountable to assure PACO lessons learned and continuous improvement opportunities are captured and implemented in future events.
- Drive best in class performance by embracing a learner mindset to support digitally enabled technician of the future leveraging technology and data.
- Establish connectivity and bridge between different teams to articulate opportunities, support delivery of solutions and be the champion of change among business users.
- Leverage technologies such as, artificial intelligence, automation, robotics, data analytics to support development solutions and to provide insights to easy-to-understand, actionable recommendations that enables users to easily extract and execute data on for value generation.

### **To be successful, you will have:**

- University degree or equivalent in Electrical/Electronic Engineering, Instrumentation & Controls Engineering, Chemical Engineering, Applied Physics or Mathematics.
- 15+ years of relevant Oil & Gas/LNG industry experience with demonstrated leadership skills and relevant competencies.
- Excellent knowledge in the MAC Process Control Domain infrastructure is required.
- Proven safety leadership skills, good understanding of HSSE, AMS requirements, track record in managing personal and process safety.
- Good leadership skills and interpersonal skills, with the ability to engage effectively at all levels of the organization. Work together with/align with other engineering disciplines for supporting operations shift teams.
- Strong knowledge and experience in Field Instrumentation with Foundation Fieldbus (FF) protocol and HART technologies.
- Strong knowledge and experience in interface protocol of different PLCs and systems (e.g. Emerson DeltaV, Bently Nevada, GE Mark VIe,....) with MAC.
- Analyzers network knowledge (AMADAS & LIMS) is added advantage.
- Skill level knowledge on MAC systems (DCS & SIS), especially with Yokogawa is added advantage. Embrace change and can work with agility to constantly adapt and manage changes.
- Excellent analytical, planning and problem-solving skills.
- Utilize digitalization skills to optimize and potentially eliminate PMs of all PACO activities using CI, AI & ML.
- In depth experience of application of project framework of PACO Standards and Industry Best Practices.
- Ability to support and sustain changes with MOC process.

- Ability to work effectively with minimal supervision.
- Strong networking and business relationship building skills is strongly desired.
- Strong continuous improvement mindset.
- Works effectively in a Team environment that builds trust and engagement.

### **This role requires that you:**

- **Must be legally entitled to work in Canada (i.e., by way of Canadian citizenship, permanent residency, or valid work permit)**
- **Know that as part of LNG Canada’s commitment to protect the health and safety of its personnel and the communities in which it operates, LNG Canada requires all Canada-based employees to be fully vaccinated against COVID-19. LNG Canada will consider accommodation requests from individuals in accordance with applicable human rights legislation.**
- Maintains a strong relationship & partnership with SIS Team Lead, Metering/QMI Team Lead, Sr. Instrument Team Lead, Maintenance Instrument Team Lead, Technical Discipline Leads/specialists, Unit Production Specialist, Head of Operations, TA Coordinator(s) and sharing overall responsibility for the successful planning and execution of PACO activities
- This role will start in Kitimat, BC to ultimately settle in a future LNGC Technical Services and Support Centre in greater Vancouver area, BC.
- Know that the LNG Canada Temporary relocation policy will apply to Kitimat assignment.
- During Steady Operations state work an office-hours schedule, approximately 40 hrs./week, 5 days per week, with flexibility to balance off time hours when required.
- During Execute, Kitimat: 50 Hrs. per week, 10hr days.
- Additional hours will be required during commissioning & start-up and during, turnaround to support execution.
- 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, a background check and Pre-Site Access testing for alcohol and specified drugs.
- Able to supervise 2-3 System Engineers and mentor Engineers in Training (EIT).
- This is Not a Fly-in, Fly-out role.

### **We offer**

- A Comprehensive LNG Canada relocation package
- 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

## **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 is committed to building an inclusive and diverse workplace and culture, a safe and sustainable facility, strong community and stakeholder relationships. We are a globally-competitive, digitally-connected business, from construction to start-up to steady-state. We have partnered with governments, local communities and First Nations to maximize shared value.

