

Meet Rajyaguru, E.I.T

Calgary, AB

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HIGHLIGHTS OF QUALIFICATIONS

- ❖ Chemical Engineering Professional currently working in Canadian Oil and Gas Sector at Strathcona Resources' Tucker Thermal Facility.
- ❖ Assisting with facility plant troubleshooting and working to support Management of Change (MOC) design, execution, and closing-out activities.
- ❖ Working knowledge of industrial simulation software such as IBM Maximo, Autodesk Navisworks, Bluebeam Revu, Aspen HYSYS, MS Office (Excel, Word, PowerPoint, SharePoint).
- ❖ Work experience in engineering environment at Indian Oil Corporation Limited (IOCL) Refinery.
- ❖ Graduated from the University of Calgary with a Master of Engineering in Chemical Engineering.
- ❖ Registered as an Engineer-In-Training (EIT) with APEGA (Member ID: 297158).

WORK EXPERIENCE

On-Site Facilities Engineering Intern - Strathcona Resources Ltd. September, 2022 - Present

- Preparing Engineering Work Packages and Construction Work Packages ranging from small replace-in-kind scopes to plant-wide MOCs.
- Assisting with scoping for projects, completing walk-downs and close-out process.
- Experienced in P&ID redlining and mark-ups along with developing Engineering Drawings and Datasheets.
- Facilitating weekly touch-base MOC meetings with Engineering, Operations, and Maintenance to discuss the status & progress of the ongoing projects.
- Facilitating Risk Assessments, Participating in PHAs (HAZOP) and Pre-Startup Safety Reviews (PSSRs) for MOC Projects.
- Helped complete audit of 200+ car seals to ensure overpressure protection was maintained on site.

Teaching Assistant, University of Calgary - Calgary, Canada January, 2022 – May, 2022

- Responsible for assisting Engineering Statics' Professors develop course plans.
- Providing guidance to students and managing to solve their queries.
- Performing laboratory research, being accountable for leading discussion sessions, and evaluating exam papers.

Intern, Indian Oil Corporation Limited – Vadodara, India June, 2019 – August, 2019

- Having a hands-on experience with the distributed control panel and the functioning of the Atmospheric Distillation Unit, Hydro Cracker Unit, Fluidized Catalytic Cracking Unit, Effluent Treatment Plant, etc.
- Acquiring knowledge of P&IDs and PFDs to support the on-field team maintain the process parameters.
- Attending health and safety workshops and participating in monthly safety meetings.
- Assisting the Fire and Safety personnel in a table-top drill on safety practices in the refinery.

PROJECTS

Design of Wastewater Treatment Plant

- The purpose of this research was to investigate the viability of designing a Wastewater Treatment Plant (WWTP) for Anaerobic Digestion systems.
- This project included creating a basic design for an industrial WWTP with a brief description of all components.
- A preliminary cost analysis had also been performed for a specific scenario.

Co-Pyrolysis of Plastic along with various blends

- Intending to solve major problems like plastic waste generation and meet the increasing energy requirements.
- Applying heat and pressure to the plastic waste in a reactor so it undergoes pyrolysis in the presence of a catalyst and gives fuel as a product.
- The products samples were then sent to the designated laboratories for testing of various parameters on the sample such as calorific value.

EDUCATION

M.Eng. in Chemical Engineering

January, 2021 – May, 2022

University of Calgary – Calgary, AB

B.Tech. in Petroleum Engineering

August, 2016 – June, 2020

Pandit Deendayal Petroleum University – Gandhinagar, India

LEADERSHIP

Lead – Graduate Engagement Committee, University of Calgary

June, 2021 – May, 2022

- Planning the University's year-round events, preparing the event agenda and circulating it to the committee members, and making sure that the meetings run smoothly as per the plan.
- Communicating with the Alumni Network of the University of Calgary to organize seminars and guest lectures for Graduate Students.

Graduate Engagement Subcommittee, University of Calgary

August, 2021 – May, 2022

- Working with the logistics committee to plan and execute bi-weekly meetings and networking events.
- Source sponsors, venues, entertainment, etc. and promote future events to strategize committee promotion.

CERTIFICATIONS

- H₂S Alive, Confined Space, and Fall Protection Training – Safe Net Safety
- Oil & Gas Process Simulation/Modeling Using Aspen HYSYS – Udemy
- Health, Safety, and Environmental Policy – Strathcona Resources
- NORM Awareness and Bear Awareness Training – Strathcona Resources
- Lean Six Sigma Green Belt – Six Sigma Global Institute
- WHMIS – University of Calgary
- Valid Class 5 Driver's License