

Summary

Years of Experience

1+

Office of Employment

Wood Group Kenny, Chennai, India

Industries

- Oil and Gas
- Process
- Upstream
- Downstream

Types of Facilities

- Upstream/Downstream
- Process Plants
- Onshore/Offshore Pipelines

Areas of Expertise

- Process Modelling
- Process Simulation
- Flow Assurance
- Pre-FEED
- Process Plant operational activities

Professional Summary

Chirag has 1+ years of experience as a Graduate Engineer Trainee and has worked in Gasification Plant associated with refinery and petrochemical complex at Reliance Industries Limited. He is currently working as a Graduate- Flow Assurance Consultant and is responsible for the execution of multiphase flow studies. He is well versed in fluid characterization, modelling and simulation techniques. He has been involved in performing steady state simulations and provide technical service support for flow assurance. He has experience in operational activities and handling shutdown and emergency scenarios of process plants.

Qualifications

Education

B. Tech in Chemical Engineering with specialization in Refining and Petrochemicals, University Of Petroleum and Energy Studies, Dehradun, 2020

Publications / Presentations

"Enhancing Oleo-Phobic Properties of Polytetrafluoroethylene (PTFE/Teflon) Film by Chemical Graft Co-Polymerization Method for Potential Oil Contamination Control" ; Journal for Advance Research in Applied Physics ; 2018

Presented Technical Poster on "Green Propellants: Ecofriendly fuels for Space Propulsion" in CHEMCON-2018 at NIT Jalandhar, India

Software / Skills

- MATLAB
- ASPEN-PLUS
- SOLIDWORKS
- Synergi Pipeline Simulator (SPS)
- OLGA

Languages

- English
- Hindi

Experience

Chirag has total of 1+ year of experience with chemical process/ downstream Oil & Gas industries.

Experience

Graduate Flow Assurance Consultant (WGK, India)

Safaniyah Water Injection Pre-FEED Phase Studies (Ongoing)

- The study objective is to perform steady state and transient simulations for Safaniyah Water Injection Network and to recommend line sizes for the new pipeline network.
- Various years were analyzed/simulated based on the water injection rates over the years. The best option/configuration will be recommended based on simulation studies carried out using **Synergi Pipeline Simulator (SPS)**.
- Line size recommendation will be subjected to constraints fixed by Saudi Aramco standards for velocity, design pressure and pressure requirement at the well head platforms.

Graduate Engineer Trainee

Reliance Industries Limited; Gasification Unit, Jamnagar, India

- Worked as Shift Field Engineer in the Petcoke Gasification unit and looked after operational activities on field for the major equipment's of the plant like two stage reactor, HTHR and Char Filter.
- Worked on SAP based Work Permit System to ensure safety during any activity in the plant.
- Gained experience of working on Envysys based DCS system about monitoring and troubleshooting of process parameters of plant.
- Worked and had an experience of handling five major shutdown and its related activities and one emergency scenario of the unit.

Summer Intern

Reliance Industries Limited; PSF Continuous Polymerization Plant, Patalganga, India

- Worked on a live project for the CP4 Unit Capacity Enhancement.
- Gained experience on operational activities of continuous polymerization plant used for manufacturing Polyester Staple Fibre (PSF) and spinning process.
- Performed simulation and used results for the design check and validation of equipment's for increased (264 ton/day) thruput.

Summer Intern

Nayara Energy Private Limited; Isomerization Unit, Jamnagar, India

- The project involved analysis of isomerization process and a comprehensive study of the related technology, its viability and economic aspects through case study of live operations.

Professional History

- Wood Group Kenny India Pvt. Ltd. (Feb 2022 – Present)
- Reliance Industries Limited (Feb 2021 – Jan 2022)
- Reliance Industries Limited (May 2019 – July 2019)
- Nayara Energy Private Limited (May 2018 – June 2018)