

1.0 Requisition Details

Position	: Principal Engineer (Process) Lead Engineer
Location	: HSIDC Estate, Kalka - near Chandigarh
Education Qualification	: B.Tech M.Tech Ph.D (Chemical Engineering)
Experience	: 5 - 15 years

2.0 Candidate Profile

The ideal candidate would be a competent process engineering specialist, with proven background in scaling of chemical processes from pilot to commercial, project development and commissioning, cost reduction and energy saving.

Culture fit

At Ventana, people are expected to not only deliver to their proven expertise, but also “punch above their weight class”. Engineers are actively encouraged to assume greater interdisciplinary roles across process, mechanical, electrical, project management and laboratory research work and take upon responsibilities where new learnings are to be embraced.

While most candidates imagine that such scenario would be a breath of relief from their hyper-structured big / public company environment, our experience is that such culture is best embraced by individuals who have high learnability quotient, who demonstrate a can-do attitude and who believe that there are atleast 3 ways of solving any problem.

An ideal candidate would bring a deep enthusiasm to participate in furthering company’s technology for conversion of waste plastics to petroleum fuels and be a good fit with the highly autonomous and initiative driven culture at the company. We value people who have worked in smaller teams, have a do-more-with-less attitude and are willing to wear several hats to deliver on organizational goals .

Technical fit

The ideal candidate would be a process engineering specialist having proven background with scale-up of pilot plant, basic and detailed design engineering, project development and commissioning. He/she would bring the following technical skills:



- i. Process design engineering (BEP and DE) : preparation, review and finalization of PFD, P&ID, PDS, M&HB, equipment and process datasheets, cause and effect diagrams etc.; vendor development and negotiation, technical review of equipment during fabrication.
- ii. Financial modeling (CAPEX and OPEX) - – sensitivity analysis.
- iii. FEED design using Aspen, preparation of execution phase contracts.
- iv. Plant erection, commissioning - design and analysis of trials, manpower scheduling, plant troubleshooting and optimizations.
- v. Knowledge of patent assessability, patent research and patent drafting.
- vi. Process modeling and simulation, prior experience with modeling of thermal reactors and fractionation columns preferred.
- vii. An ability to work closely with company’s engineering and strategic partners.
- viii. Material handling and movement – prior experience with mobility and process transfer of shredded or liquified polymer is a plus.
- ix. High computer literacy, ability for online research and authoring decent technical documents.
- x. Strong aptitude for project and people management, development of road map and timeline for technology improvement. An ability to visualize the probable operational and design problems and pre-emptively remove process constraints.
- xi. Experience with vendor engagement for fabrication of custom-built engineering equipment (custom furnaces, heat exchangers, pumps etc.).
- xii. A knowledge of petroleum fractionation and additives used for automotive fuel-blending is preferred.
- xiii. An ability for contextual analysis, strategic decision making and ensuring rollouts to committed business plans.

4.0 Candidate Details to be Furnished

If you believe you have a good fit-to-position, please respond to hr@ventanacleantech.com with the following details. Your answers should be elaborate enough to provide a better understanding of your fit-to-role.

- i. How does your professional background fit the requirement of the position ? Please provide 3 arguments as to why you consider yourself a suitable candidate for this position.
- ii. Please provide an example where you took initiative to solve a technical problem at your workplace and the steps you took to achieve the same.
- iii. Do you have prior experience of working in small teams and autonomous work environments which require a high degree of self-initiative ?
- iv. Why are you interested to work with Ventana ?
- v. Present and expected CTC.
- vi. Time required for relocation.