

**Location:****To Be Determined**

Please note willingness to relocate

Travel Requirements:**Up to 30%****Industries:****Renewable Energy,
Syngas Cleaning****Job Type:****Full time employee****Relevant Work Experience:****15 to 20 years****Education Level:****Masters of Science,
Chemical Engineering or
PhD in Chemical Engineering****Career Level:****Director of Engineering****DIRECTOR OF ENGINEERING**

Looking for dynamic individuals to join the team of a newly formed start up joint venture, S4 Energy Solutions, LLC (S4 Energy). S4 Energy is a joint venture between Waste Management, Inc. in Houston, Texas and InEnTec, LLC in Bend, Oregon formed to develop and deploy facilities that create renewable energy from waste based fuels using advance gasification technology. S4 Energy is establishing an engineering group to perform various engineering tasks for a range of design and build projects. This position involves management of the engineering department and direct supervision of the process design, process development and analysis and testing of equipment associated with plasma gasification, syngas gas handling and cleaning systems, energy recovery, and conversion technology.

This position includes responsibility for organizing and managing highly functional engineering teams to work with senior and executive management on development and deployment of plasma gasification plant projects from conceptual design, permitting, site construction, start-up and acceptance testing.

Job Responsibilities:

- Responsible for leading an engineering team in the development and engineering plans of specific gasification applications.
- Work with an integrated team of engineering and financial staff to establish conceptual designs for project cost estimating in support of new project development activities.
- Direct and review detailed mass and energy balance calculations as well as performing process simulation analysis.
- Manage and review development of process flow diagrams and P&ID's.
- Manage the investigation and analysis of new materials, equipment and engineering practices.
- Prepares engineering calculations, specifications, estimates, surveys, statistics, conceptual designs and reports.
- Prepare and evaluate quotations and bids and submit recommendations.

(Continued on next page.)



(Continued from previous page.)

- Organize design sketches, layouts, and schematics as part of the design teams for development of final design submittals.
- Evaluate and recommend materials of construction and components; oversee the development and specifications for materials, fabrication techniques and/or equipment procurement.
- Compile cost estimates based on specifications, drawings and material take-offs for work projects in comprehensive formats for review and evaluation.
- Review and analyze operating data, prepares reports, and makes comparisons with similar proven designs.
- Uses team management skills to lead the technical direction for S4 Energy Solutions during all phases of a project development.
- Develop action plans and estimates requirements for resources—management, labor, materials, and time required to complete projects.
- Monitor progress of project vendors and consultants and compares actual costs with budgets and schedules.
- Reviews in detail the work of consultants and modifies plans as appropriate if problems arise.
- Prepares periodic reports, detailing project progress and costs for management.
- Reviews and studies existing equipment, facilities, systems, and processes to improve efficiency, increase productivity, and reduce operating or maintenance costs.
- Works with Operations in troubleshooting plant problems.
- Communicates with senior management all aspects of work so as to promote effective project execution within the company.

Job Requirements:

- Masters of Science or PhD Degree in Chemical Engineering.
- A minimum of 15-20 years of professional chemical process design engineering coupled with management of engineering department.
- Experience in gasification of biomass, waste materials, syngas treatment, sulfur recovery, waste heat recovery, methanation, methanol, or other gas to liquids technology.
- Experience in ChemCad and/or Aspen model programming.
- Prior experience in a start up situation a plus.
- Excellent ability to communicate verbally and in writing in a clear and concise manner.
- Excellent administrative and organizational skills.
- Ability to methodically plan and schedule, and manage complex projects with a multi-disciplinary team; training in network based, critical path planning and scheduling.
- Good mechanical, analytical and technical skills.
- Ability to travel as necessary to conduct company business and receive training.
- Strong team building and interpersonal skills, including ability to participate effectively and interact with senior and executive management.
- Safety conscious and willing to participate on management team to develop corporate safety policies.
- Organize and manage the development of facilities operation and maintenance manuals.
- Periodic work at plants under varying conditions including dust, noise, heat, cold, confined spaces and potential safety hazards.

Compensation:

Competitive compensation package.

***Note:** Please provide compensation requirements/expectations when responding to this posting.*
