

**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:****7 to 10 years****Education Level:****Bachelor of Science, Chemical  
Engineering****Masters in Chemical Engineering  
preferred****Career Level:****Process Engineer****PROCESS ENGINEER**

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 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 participating with engineering teams on development and deployment of plasma gasification plant projects from conceptual design, permitting, site construction, start-up and acceptance testing.

**Job Responsibilities:**

- Assists in the development of engineering plans and designs for specific applications.
- Conduct detailed mass and energy balance calculations as well as performing process simulation analysis.
- Assists in the development of process flow diagrams and P&ID's.
- Assists in the investigation and analysis of new materials, equipment and engineering practices.
- Prepares engineering calculations, specifications, estimates, surveys, statistics, conceptual designs and reports.
- Assists in evaluating quotations and bids and in developing recommendations.
- Prepares design sketches, layouts, and schematics as part of a design team.
- Selects materials of construction and components; develops specifications for materials, fabrication techniques and/or equipment procurement.
- Develops cost estimates based on specifications, drawings and material take-offs for work projects.

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- Reviews and analyzes operating data, prepares reports, and makes comparisons with similar proven designs.
- Prepares preliminary design drawings using the Auto Cad or similar CAD package and directs the work of consultants, engineers, designers and technicians as required.
- Uses team management skills to lead the technical direction for S4 Energy Solutions during all phases of a project development.
- Develops action plans and estimates requirements for resources—management, labor, materials, and time required to complete projects.
- Participates on project team efforts in securing permits and work with local officials and agencies.
- Assesses contractors, vendors and third party engineers for competence, capabilities and resources.
- Monitors 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.
- Provides input for 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 department management all aspects of work so as to promote effective project execution within the company.

### **Job Requirements:**

- Bachelors of Science Degree in Chemical Engineering (Masters degree preferred).
- A minimum of 7 - 10 years of professional chemical process design engineering.
- Experience in 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.
- Good 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 complete reports and assigned tasks accurately and in a timely manner.
- Ability to travel extensively as necessary to conduct company business and receive training.
- Strong team building and interpersonal skills, including ability to participate effectively in group activities critical for developing leadership skills.
- Ability to organize tests and monitoring programs to evaluate operational efficiency and work with facilities in addressing them.
- Ability to work independently as well as being a contributor on a team.
- Ability to accept constructive feedback from others.
- Is safety conscious and able to receive, comprehend, and utilize OSHA training for work in areas that require use of personal protective equipment.
- 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.

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