

Process Engineer II

Interested in the energy industry? Care about the environment? Then KP Engineering is a great place to further your career. We are an engineering, procurement, and construction ("EPC") firm serving the refining, specialty chemical and renewable energy markets. We are looking for a mid-level Process Engineer to focus on the company's technologies and engineered products relating to syngas and hydrogen technologies. The Process Engineer II should have five to ten (5-10) years of experience in conceptual process engineering design. This position will be located in our Houston, TX or Tyler, TX office.

Essential Duties & Responsibilities

- Applies the use of process simulation programs to model process solutions
- Performs basic engineering calculations such as heat and mass balance, equipment sizing, piping hydraulics, control valve sizing, full relief system design, etc.
- Discerns the client's technical and/or commercial drivers and responds with appropriate process and economic solutions
- Develops process solutions for clients using company products and technologies, where applicable and cost effective; including PFD and P&ID definition and development, process equipment sizing and selection, process performance evaluation and generation of written documentation as required
- Supports detailed engineering execution by reviewing P&IDs and equipment quotations, participating in PHA, reviewing operating manuals and assisting in operations training
- Supports business development efforts for projects from a process perspective as required, including presentation of technical solutions
- Communicates internally with various groups including business development, project management and other disciplines

Knowledge, Skills & Abilities

- Knowledge and experience with process simulators such as those in the AspenTech Suite (Aspen Plus, HYSYS), BR&E's ProMax, AVEVA Pro/II, etc.
- Quick study, open to innovative ideas
- Interest in developing new applications and technologies
- Excellent interpersonal, communication (written and verbal) and team-building skills

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KP Engineering, LP

Headquarters
5575 Old Jacksonville Hwy
Tyler, TX 75703

Houston office
11757 Katy Freeway, Suite 1200
Houston, TX 77079

- Ability to effectively present information and respond to inquiries and information from managers, peers, clients, vendors, etc.
- Self-starter with strong organizational skills (multitasking skills are a must to meet multiple deadlines)
- Mechanical aptitude desirable
- Basic understanding in the application of industry standards, codes and recommended practices to projects
- Ability to write reports, business correspondence, manuals, and procedures
- Ability to solve problems with a variety of variables and limited structure or guidance
- Regular and predictable attendance, as well as the ability and willingness to work as required to satisfy project deadlines

Education & Experience Requirements

- Bachelor's degree in Chemical Engineering
- Five to ten (5-10) years of process industry experience in process design
- Process simulation experience (HYSYS, Aspen Plus, ProMax, Pro/II)
- Firm working knowledge of Microsoft Office Suite, with emphasis on Excel.
- This position will require travel on an "as needed" basis (10-20% anticipated)
- May be required to complete safety training courses for refinery facility entry

Desired Skills and Experience

- At least two (2) years of experience in the areas of syngas and/or hydrogen technologies
- Engineer-in-Training Certification with desire to work towards P.E. license with company support
- Experience with hydrogen purification technologies such as PSA, membrane separation or others
- Experience with syngas processing technologies such as sulfur removal, shift conversion, purification, CO₂ capture, etc.
- Knowledge of alternate hydrogen production technologies such as electrolysis
- Experience working in a chemical plant environment, preferable in hydrogen or gas processing facility
- Experience working with Bluebeam Revu a plus

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Working for KP Engineering

This position description reflects management's assignment of essential functions, and nothing in this herein restricts management's right to assign or reassign duties and responsibilities to this position at any time. KP Engineering is an Equal Opportunity Employer and does not discriminate on the basis of race or ethnicity, religion, gender, national origin, age, veteran disability or genetic information or any other reason prohibited by law in employment. Each of our employees receives:

- Generous health benefits
- Competitive compensation
- 401K and matching
- Ongoing professional training and development
- Opportunity to participate in community service
- Mobility/flexibility
- Commitment to work-life balance
- Exclusive team-building opportunities

Apply Today

Please email your resume to Careers@KPE.com to be considered for this opportunity.