

# Mechanical Engineer

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 Mechanical Engineer to join our team in executing on first-of-its-kind projects that are revolutionizing the energy landscape. This position will be located in our Houston, TX or Tyler, TX office.

## Essential Duties & Responsibilities

- Designs and implements cost-effective equipment modifications to help improve productivity, safety and reliability
- Collaborates with process engineering staff to provide mechanical requirements on specification sheets for equipment such as pumps, compressors, pressure vessels, shell and tube heat exchangers, air coolers
- Works to facilitate the procurement of equipment required for a given project; evaluates reliability and performance within the specified operating environment, recommending modifications as necessary
- Produces details of specifications and outlines designs based upon research, analytical, conceptual and planning skills
- Partners with drafting and design team in developing optimized layouts
- Develops, tests and evaluates theoretical designs
- Discusses and solves complex problems with sub-contractors, suppliers and clients
- Maintains focus relative to issues such as cost, safety and time constraints

## Knowledge, Skills & Abilities

- Experienced in mechanical design of piping and process equipment
- High level of technical and scientific knowledge, and the ability to apply this knowledge to practical problems according to industry standards (API, ASME, ASCE, IBC, etc.)
- Good oral communication skills and confidence in dealing with a wide range of people, including clients, subcontractors, designers, directors and plant operators
- Precise and concise written communication 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

- Must be able to contribute and function as a member of a project team
- Strong technical skills, particularly relative to computer-aided design modeling software
- Organizational skills, such as time and resource planning
- Ability to plan and meet project deadlines as stipulated by the client, project manager, etc.

## Education & Experience Requirements

- Bachelor's degree in Mechanical Engineering (BSME) required, Master's degree (MSME) a plus
- Minimum of eight (8) years of experience in a professional engineering role
- Design software experience (Caesar II, HTRI, PV Elite, Nozzle Pro, FE Pipe)
- 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 stress analysis and/or equipment design
- Engineer-in-Training Certification with desire to work towards P.E. license with company support
- Experience with hydrogen purification technologies
- Experience with syngas processing technologies such as sulfur removal, shift conversion, purification, CO<sub>2</sub> capture, etc.
- Knowledge of equipment associated with alternate hydrogen production technologies
- Experience working in a refinery or chemical plant environment, preferable in hydrogen or gas processing facility
- Experience working with Bluebeam Revu a plus

## 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

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- 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](mailto:Careers@KPE.com) to be considered for this opportunity.