

Senior Process Engineer



Job Title:	Senior Process Engineer	Effective Date:	10/1/2024
Department:	Process Design	FLSA Status:	Exempt Regular
Schedule:	Full-Time	Travel:	10%
<i>Salary based on extent of relevant and applicable experience</i>			
Paygrade Range A:	\$101,920	To	\$145,600
Paygrade Range B:	\$118,352	To	\$180,544

Job Description:

Work includes support for all project phases, with particular focus in front-end engineering and support through detailed design. Position will be assigned as either the lead or supporting process design engineer for projects and will be responsible for coordination and ensuring effective communication with other engineering disciplines and Kestrel’s clients. In a lead role, the process engineer is a primary interface with our clients’ technical staff.

Reporting:

Position reports administratively to the manager of process design. In project structure, position reports to the lead process engineer and/or the project manager/project engineer.

Responsibilities:

- Develops process design and associated deliverables, including process design basis, process flow diagrams, development of mass and energy balances, piping and instrumentation diagrams (P&IDs), cause and effect matrices. Size and specify pressure relief devices.
- Defines the approach needed to solve hydraulic, heat and mass transfer problems, including identification and collection of field data/client information. Develops appropriate model to solve the problem, effectively analyzes and interprets results, and recommends solutions to achieve our clients’ objectives.
- Sizes equipment including pumps, heat exchangers, mass transfer equipment, pressure vessels, etc. Supports mechanical engineer through development of technical specifications and drawing reviews.
- Communicates regularly with project team and Kestrel’s clients to convey technical information, identify problems, and develop solutions that achieve project objectives in a timely manner.
- Provides support through detailed engineering to provide continuity, assess the impact of proposed changes, support quality assurance/control for the project.

Other duties may be assigned as required.

Education, Skills and Experience:

- BSc in chemical engineering and 5 years or more experience in the specialty chemical, petrochemical, oil & gas, water treatment, power generation, and metallurgical/mineral processing industries working as a process engineer.
- Candidate must have excellent problem solving and critical thinking skills, able to develop and execute a plan to identify and solve technical problems.



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- Candidate must have good verbal and written communication skills, able to convey technical concepts to a wide variety of audiences in a clear and concise manner.
- Ability to produce quality work under the constraints of the project.
- Must have a thorough understanding of chemical engineering principles, including heat and mass transfer, thermodynamics, and fluid flow and hydraulics.
- Experience with hydraulic analysis for piping and ductwork using software (e.g., Design Flow Solutions, PipeFlo).
- Experience with Aspen HYSYS preferred.
- Proficiency with Microsoft Office products is required.
- Previous plant experience is strongly preferred.

Certifications, Credentials, Licenses & Registrations:

- Successful completion of FE exam required and professional goal to pursue PE license preferred.
- Eligibility to obtain or currently hold a valid Transportation Worker Identification Credential (TWIC) required.

General Qualification Requirements:

All Kestrel staff must have the legal right to work in the United States. Kestrel does not provide immigration or work visa sponsorship.

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed are representative of the knowledge, skills and abilities required. Reasonable accommodations may be made, when possible, to enable individuals with disabilities to perform the essential functions.

Candidates should also possess the following competencies: Able to identify and resolve problems in a timely manner; Develop alternative solutions; Keep emotions under control while under stressful situations; Speak clearly and persuasively in positive or negative situations; present numerical data effectively and accurately; show respect and sensitivity for cultural differences; promote a harassment-free environment; work with integrity and ethically; follow the Company's policies and procedures; prioritize and plan work activities; use time efficiently; approach others in a tactful manner; accept responsibility for own actions; deal with frequent change, delays, or unexpected events; be consistently at work and on time; ensure work responsibilities are covered when absent; arrive at meetings and appointments on time; and ask for and offer help when needed.

Workplace Requirements:

Due to the nature of our work, all employees must be capable, eligible and willing to visit our clients at their industrial facilities. This entails a willingness and ability to travel, wear required personal protective equipment and to comply with our safety policies as well as those of our clients.

Drug & Alcohol Testing: Drug and alcohol screening will be completed by Kestrel at employment initiation and periodically thereafter as required to meet our client requirements. This testing is performed in accordance with state and federal requirements and as defined by client drug and alcohol testing requirements. Failure to pass a drug or alcohol test, refusing to submit to testing, and/or providing an adulterated or substituted sample, will be cause for termination where not contrary to law.



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Background Checks: Background checks will be completed by Kestrel at employment initiation and periodically thereafter as required to meet our client requirements. The results of background checks will be kept confidential and will not be actionable unless they reveal information that would make the employee ineligible for client site access.

Travel Requirements: Kestrel employees must be willing and able to travel by driving or flying to client facilities and other Kestrel offices. For Kestrel employees to drive as a course of their employment they must have a valid driver's license and be insurable through Kestrel's insurance provider. You must be willing and able to drive your own properly registered and insured vehicle. Any negative incidents such as speeding tickets or DUI's could prevent an employee from being insurable as a driver of a Kestrel or rental vehicle. Must also meet all requirements to fly with commercial airlines without restriction.

Language Skills:

Because Kestrel maintains strict adherence to company policies and procedures, for an individual to perform this job successfully, he/she must have the ability to speak, write and understand English. Ability to read, communicate, interpret, and comprehend simple instructions, correspondence, and memos, both electronically and in written form.

Mathematical Skills:

Candidate must be able to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals.

Reasoning Ability:

Ability to apply common sense understanding to carry out instructions furnished in written, oral, electronic, or diagram form. Ability to deal with problems involving several concrete variables in standardized situations. Must be able to work and communicate well with others; work well under the pressure of ensuring that requirements and specifications are met; work with minimal supervision.

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Kestrel employees, with reasonable accommodation, must be willing and able to independently enter, perform work within, and evacuate from all areas within the client's site. Reasonable accommodations may be made, when possible, to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the associate is regularly required to use hands to finger, handle, or feel and talk or hear. The associate frequently is required to sit and reach with hands and arms. The associate is occasionally required to walk; climb or balance; and stoop, kneel, crouch, or crawl. The associate must regularly lift and/or move up to 10 pounds and occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus.

The Work Environment:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made while working in the office, to enable individuals with disabilities to perform the essential functions. However, this may not be the case at client sites. Know that the noise level at client sites can be very loud. In addition,

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at client sites you may also be exposed to moving mechanical parts, fumes, gases, airborne particles, confined spaces, and may occasionally be exposed to a risk of electrical shock.

Employment Benefits:

We offer a full benefits package. Medical, Dental, Vision, FSA, HSA, 401K, Company paid Life & AD&D Insurance, Company paid Short-Term and Long-Term Disability, Supplemental Life & Dependent Life Insurance, and a Flexible Spending Account. We also offer a generous Paid Time Off program, 8 paid holidays, and exempt staff compensated for hours worked over 40 per week.

“Kestrel is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected veteran status.”