Paschal Solutions, Inc. seeks Process Engineers to join our team!

Why join Paschal Solutions, Inc. (PSI)?
PSI has provided criticality safety, nuclear safety, engineering, regulatory, and management and engineering services for federal and commercial clients since 2000. PSI has a reputation for providing high quality services which is demonstrated by the satisfaction of our clients resulting in long-term contracts. PSI knows that our company is defined by our employees. We recruit and hire those employees considered to be amongst the best in their peer group and who have a sincere desire to help our clients.

Salary and Benefits – PSI provides offers based on a generous compensation package. Our employees enjoy competitive pay and excellent benefits, along with a positive work environment built on mutual respect and professionalism.

Equal Opportunity – PSI is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment regardless of their race, color, religion, sex, sexual orientation, bender identity, national origin, age, or status as a qualified individual with a disability or protected veteran.

For More About PSI - Go to www.paschalsolutions.com.

PASCHAL SOLUTIONS, INC.
Providing Safe and Efficient Engineering Solutions

Process Engineer

Job ID: 2311PSI

Job Title: Process Engineer

Locations: Oak Ridge, TN

Job Duties/Responsibilities:
The Process Engineer provides a central role in the design, construction and operation of any process area structures, systems, components (SSCs) they are assigned. The Process Engineer supports safety and regulatory teams to ensure that safety basis requirements associated with the SSCs are identified and rigorously incorporated into the design, construction, and operating conditions applicable to those SSCs. The Process Engineer participates in or leads design and plant modification activities to ensure efficient design and operation, meeting the facility production goals in the safest and yet most efficient manner practical. The Process Engineer evaluates and conducts predictive performance analyses to meet budget, schedule, and production goals through maximizing SSC reliability, and minimizing unforeseen failures to the extent practical. The Process Engineer participates in safety basis development by providing timely and thorough reviews of safety basis documentation, such as nuclear criticality safety evaluations, radiological release analyses, hazardous chemical analyses, and state emission permit evaluations. The Process Engineer must have strong communication and problem-solving skills and must be prepared to maximize time in the facility, monitoring and reviewing construction compliance and process operational performance.

Typical responsibilities are as follows:
Specific Roles and Responsibilities are expanded below and organized by broad responsibility categories:

- Safety:
  - Must have a safety-first mindset that seeks to maximize safety consideration while maintaining efficient and effective design and operation capabilities, needed to meet customer needs.
  - Support Safety Organizations that establish requirements for:
    - Nuclear Criticality Safety
    - Nuclear Safety (radiological release prevention and control)
    - Hazardous Chemical control
    - State emission limits
  - In support of the areas bulleted above, the Process Engineer must be ready to engage in the following activities:
    - Participate in review and support development of safety basis documentation.
    - Help ensure that analyses, assumptions, and controls are reliable and able to perform the function credited by safety basis documentation.
    - Help ensure controls and features credited or important to the safety basis can be verified in the final installation.
    - Work with safety organizations to suggest alternatives to controls or corrections in process descriptions and analyses that might improve safety basis and improve design and operation.
    - Support safety and licensing leads in responding to regulatory agencies in a timely always working in good faith to providing complete and true feedback to regulators.

        - Support management assessments and auditing organizations to ensure processes are reviewed with a critical mindset to identify potential weaknesses so that corrections can be made in a timely manner.
- Design Development:
    - Lead or participate in development/review of:
        - Process description/process narrative documentation
        - Design input requirements that must be maintained in the final design
        - Design output documentation that will ensure design input requirements are rigorously met
        - Material balance and material flow documentation
        - Energy balance documentation
    - Lead or participate in the identification of suppliers for subcomponents or in the development of drawings and specifications that will ensure fabrication.
    - Lead or participate in the development and implementation of setpoint calculations.
    - Lean or participate in the development of test plans to ensure credited SSC perform the safety basis and performance bases requirements as credited.
- Communication:
    - The Process Engineer must maintain effective communication with all parties affecting design, approval, construction, and operation. With a safety-first mindset, seek design and process conditions that will also meet customer needs in the most efficient and effective way possible to increase product while minimizing cost.
- Construction:
    - The Process Engineer must engage with field construction teams, safety organizations, and design engineering to ensure that construction activities are performed in a safe manner, consistent with regulatory requirements and consistent with the design basis documentation.
- Startup Testing:
    - The Process Engineer must engage in the development of procedures and test plans that ensure SSCs are tested in a manner that is compliant with applicable safety basis documentation, while ensuring that plant performance objectives for those SSCs are met.
- Operations:
    - The Process Engineer must engage with Operations personnel to review/develop plant operating procedures, postings, work packages, post maintenance testing packages, equipment operability evaluations, etc. such that production goals are met to the extent possible, while always ensuring safe and compliant operations.

Minimum Education/Qualifications/Job Requirements:

- Minimum of a bachelor's degree from an ABET (or equivalent) accredited university in chemical engineering, nuclear engineering, material science, material science engineering, mechanical engineering, or another related field.
- 5+ years of related experience in uranium process engineering.
- 1-3 years CAD and P&ID experience required.
- 1-3 years' experience with industrial equipment design, procurement, installation, and operation is required.
- Basic Understanding of the nuclear fuel cycle preferred.
- Experience with Microsoft Office products.
- Strong interpersonal, communication skills, analytical skills, organizational skills, collaboration skills, and a self-starter.

Physical Requirements / Working Conditions:

- Successful candidates will be able to perform the essential functions of the job with reasonable accommodation.

Location:

- Position is on-site – Oak Ridge, TN

Desired Qualifications:

- Preference will be given to candidates that possess a DOE "Q" Clearance.

How to Apply: Send resumes to Careers@paschalsolutions.com

Note: Applicants selected will be subject to a federal background investigation and must meet eligibility requirements for access to classified information or matter. Position requires U.S. Citizenship with (no dual citizenship) ability to obtain and maintain a Department of Energy (DOE) security clearance which involves an extensive criminal and financial background investigation, drug test and previous employment reference verifications.