



**The Combustion Institute**

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## **Senior Process Engineer, Special Projects – Monolith, San Carlos, CA, United States**

**Monolith**, located in Lincoln, NE, is excited to announce its search for an **Senior Process Engineer, Special Projects - Process and Plant Technology**.

Monolith is a carbon black manufacturing company which uses a proprietary process to convert natural gas to carbon black in an environmentally advantaged manner. We're builders. Innovators. Pragmatists. We believe that technology holds the solutions to climate change and that cleaner technology is better technology.

At Monolith we apply scientific principles, engineering practices, and a lot of hard work to solve real problems that have a global impact. We use sophisticated analysis methods, advanced manufacturing techniques, and often even our hands to build first of its kind technologies. We do not compromise on safety, quality or performance. If you want to solve tough problems, build real things, and have a big impact then you should join us.

### **Your Role**

The Senior Process Engineer, Special Projects role will be a core member of the Process and Plant Technology Team who will serve as an expert on the Monolith process, a liaison with the R&D Reactor team, and a lead in scaling pilot and demonstration facilities of novel hydrogen and carbon black production methods.

### **You Will**

- Technical oversight of process design
  - - Liaison for Core Tech reactor design to process development and ultimately point of contact for transfer to project execution
    - Able to perform engineering calculations such as heat and mass balances to generate process and plant specifications.
    - Process modeling for Monolith technology
    - Integrate technical learnings from existing Monolith facilities.
    - Hand-off Core Tech approved plant design to project execution team and assist in the preliminary phases of project execution.
- Cross-functional Monolith Lead

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- - Interface with other core technology team members and carry projects from inception to conceptual commercial scale-ups.
  - Enable scale-up execution across multiple disciplines while maintaining vision for project and technology goals.
- Technical resource for alternative process designs and novel technologies
  - Perform and manage internal/external resources for new unit op assessment
  - Coordinate design reviews and feasibility studies to align core-tech technology roadmap and process technology roadmap are aligned

### You Have

- B.S. Chemical Engineering
- 5-10 years of experience, or
- 1-2 years in pyrolysis technologies
- An equivalent combination of education and experience to successfully perform the job duties and responsibilities.

### You Are

- Forward-thinking and able to anticipate potential pitfalls, bottlenecks, and integration of new technologies developed by the Monolith R&D team into scaled demonstration units.
- Able to propose clear and concise solutions to engineering and feasibility questions from laboratory to demonstration scale systems.
- Familiar with
  - PFDs, P&IDs, and assembly drawings
  - Process simulation software: Aspen HYSYS or similar
  - Smart plant or CAD plant software

### Work Environment

Combination of home office, field office, and contractor offices. Often the only Monolith representative at contractor offices, in both United States and overseas locations.

### Travel

Frequent travel, up to 35%. International travel.

### How to Apply:

You can apply for this position [here](#).

#### ***The Combustion Institute Disclaimer***

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