



The Combustion Institute

5001 Baum Boulevard, Suite 644

Pittsburgh, Pennsylvania 15213-1851 USA

Ph: (412) 687-1366

Fax: (412) 687-0340

Office@CombustionInstitute.org

CombustionInstitute.org

The Combustion Institute posts job listings for the convenience of our international combustion community. CI does not endorse this job listing or the employer. Please do not contact CI for job-related information. Refer to the full disclaimer at the end of this document.

CFD Engineer – Monolith, San Carlos, CA, United States

Monolith is excited to announce its search for a **CFD Engineer**.

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 CFD Engineer will focus on CFD geometry development, meshing, and modeling of high-temperature chemical reactors. The candidate should have a working knowledge of ANSYS Workbench, Design Modeler, Space Claim, Mesh generators, ANSYS FLUENT, User Defined Function (UDF), Text User Interface (TUI), and Journal scripting. The candidate will participate in cutting-edge model development and data processing.

You Will:

- Set up and run ANSYS FLUENT cases, utilize and update post-processing tasks, and fully document the involved procedure.
- Learn to use and develop tools to model various operating conditions, reactor geometries, potential improvements, next-generation reactor characterization, sizing, and scale up.
- Learn to generate new geometries and high-quality mesh with balanced accuracy and performance.
- Perform data processing and other duties as needed.

You Have:

- Completed BSc, MSc or Ph.D. degree in Mechanical or Chemical Engineering program, and have excellent understanding in:
 - - ANSYS FLUENT
 - MATLAB
 - Python
- An equivalent combination of education and experience to successfully perform the job duties and responsibilities.

You Are:

Combustion Job Opportunity

- Eager to learn and curious; not afraid to ask questions
- Thinks outside the box in search of answers
- Attention to detail
- Honest with capabilities; understands where knowledge gaps are and seeks to fill them
- Data-driven; uses hard evidence to back up conclusions
- Ability to translate textbook chemical engineering principles into real-world scenarios
- Easy-going, can-do attitude
- Willing to acknowledge faults and seeks feedback to improve

Work Environment:

Work will be performed within an open office environment and/or partially remote setting.

How to Apply:

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

The Combustion Institute Disclaimer

The Combustion Institute posts job listings for the convenience of our international combustion community. CI does not endorse or recommend employers, and listed job opportunities do not constitute an endorsement or recommendation. CI explicitly makes no representations or guarantees about job listings or the accuracy of the information provided by the employer. CI is not responsible for safety, wages, working conditions, or any other aspect of employment without limitation. Please do not contact CI for job-related information.