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 of 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.

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