® **Sanford Rose Associates – Del Mar, CA**

CFD Combustion Analyst

Contact: Edith Felker, egfelker@sanfordrose.com 760-480-9610

Company

Our client is a venture capital funded startup company that is developing a "green" engine technology that combines proven designs with modern technology and breakthrough innovations to create engines that set new benchmarks in fuel economy and power density. The company uses state-of-the-art 3D modeling and simulation tools, has full fabrication, measurement and testing facilities and designs, develops and tests engines that will soon be commercialized into the automotive, commercial vehicle and industrial sectors – a $215 Billion addressable market.

Duties and Responsibilities:

- Perform all phases of the CFD analysis of the combustion process in an internal combustion engine including model construction, mesh creation, pre- and post-processing, and presentation of results to team members.
- Provide fundamental understanding of the combustion process through the use of 3D computational fluid dynamics (CFD) as part of the development of the engine's combustion system.
- Creation of design specs for the elements involved in the combustion chamber of the engine.

Position Requirements:

- 5-7 years firsthand experience in the CFD analysis of diesel combustion systems.
- Industrial internal combustion engine experience (diesel – not gasoline or turbine).
- Fundamental understanding of advanced diesel combustion strategies (CFD modeling)
- Experience with diesel engine combustion testing is desirable, but not required.
- Demonstrated working knowledge of commercial 3D CFD, CAD, meshing, and CFD post-processing software packages
- High level of computer literacy (Linux and Microsoft operating systems)
- Must be able to work in a highly collaborative working environment.
- MS or PhD in Mechanical or related Engineering discipline

For further information or to apply for this position, please Contact: Edith Felker

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