



The Combustion Institute

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Postdoctoral Appointee Position: Gas Turbine Combustion in Energy Systems Division at Argonne National Laboratory

Job Description

- Perform development and validation of Computational Fluid Dynamics (CFD) models for gas turbine combustors.
- Involve the use of high fidelity simulations on supercomputers and leverage machine learning algorithms to optimize gas turbine combustor designs for lower emissions.
- Work in collaboration with a multidisciplinary team of experimentalists and modelers.

Essential Requirements

- Experience in NO_x and soot modeling for gas turbine combustors is desired.
- Experience in using CFD codes, on HPC systems, for complex geometries involving multiphase and turbulent combustion.
- Knowledge of combustion concepts is desired.
- Knowledge of multi-dimensional code development (in Fortran/C/C++) for CFD models along with understanding of turbulent combustion models.
- Understanding of chemical kinetics is desired.
- Understanding of multi-phase modeling is desired.
- Collaborative skills, including the ability to work well with other divisions, laboratories, and universities.
- Strong communication skills.
- Experience in interdisciplinary collaborative research is desirable.
- Understanding of machine learning techniques is desirable.
- Candidates should have a Ph.D. in mechanical/aerospace engineering, applied mathematics, chemical engineering, or a related discipline.
- Candidates must have completed their Ph.D. within the last three years.

How to Apply

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Requisition Number: 405233

Location: Lemont, IL, USA

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