



The Combustion Institute

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Postdoctoral Appointee Position: Propulsion in Energy Systems Division at Argonne National Laboratory

Job Description

- Perform model development and Computational Fluid Dynamics (CFD) simulations of high speed reacting flows.
- Implement combustion models for supersonic combustion applications.
- Optimize CFD codes for future supercomputing architectures.
- The successful candidate's research will involve synergetic collaborations and co-development activities with a multidisciplinary team of modelers and experimentalists.

Essential Requirements

- Knowledge of multi-dimensional code development (in Fortran/C/C++) for CFD models along with experience in turbulent combustion models.
- Ability to work in a team environment.
- Knowledge of air-breathing propulsion concepts is desired.
- Experience in implementing models in CFD codes is desired.
- Understanding of turbulent combustion modeling and chemical kinetics is desired.
- Knowledge of large scientific code management and optimization is desired.
- Experience in modeling supersonic reacting flows is desired.
- Experience with tabulated flamelet models 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 desired.
- 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: 405232

Location: Lemont, IL, USA

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