

Postdoctoral Research Associate in Engine CFD Research and Experimental Validation

Applications are invited for one Postdoctoral Research Associate position in the Department of Mechanical Engineering at Iowa State University. The research objectives of this position are to (1) develop CFD models and computational algorithms related to engine spray combustion, (2) conduct experimental validations, and (3) implement user-defined functions into the CFD code, CONVERGE. The duration of the position is expected to be one year and may be renewable based on performance and availability of funding. The salary will be commensurate with the prior research experience of the applicant.

Qualifications

Candidates should have a doctoral degree in mechanical engineering or related field. Applicants with experience in (1) computational fluid dynamics and (2) engine research are highly encouraged to apply.

Responsibilities

The postdoctoral associate will conduct research work, attend the weekly research meetings, mentor graduate students in the group, and facilitate close collaborations with research sponsors. The postdoctoral associate will also publish the findings of his/her research in premier journals, present his/her research in high-impact conferences, and participate in proposal writing. Only individuals who have a strong desire to pursue an R&D career are encouraged to apply.

Applicant Information

The position is available immediately. Applications will be processed as they arrive until the position is closed. Interested applicants should submit by email (1) a cover letter that summarizes prior research experience and (2) a CV, and (3) a few representative publications CFD and/or experimental validation to Dr. Song-Chang Kong, kong@iastate.edu.