

# Department of Computational and Data Sciences

## Indian Institute of Science, Bengaluru

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**Advertisement No : CDS/KA/AUG2021/PD**

**Date: 01/08/2021**

### **Advertisement for the post of Post-doctoral Researcher**

Applications are invited for a Post-doctoral Researcher position in the FLAME lab at CDS, IISc.

**Specific roles and responsibilities:** The project work involves the following tasks -

- Develop a scalable computational fluid dynamics (CFD) solver for turbulent reacting flows.
- Benchmark and perform simulations on massively parallel computing systems.
- Interaction with industry partner.
- Present results at conferences and prepare manuscripts.

#### **Basic requirements:**

- Ph.D. in mechanical/aerospace/chemical engineering, applied mathematics, or a related discipline.
- Knowledge of HPC code development (in C++/C) for reacting flow applications, and parallel scientific computing is required.
- Knowledge of deep learning (in TensorFlow, PyTorch, etc.) for scientific applications is desired.
- Experience in modeling and simulation of three-dimensional reacting flow applications using CFD codes is desired.
- Experience in geometry manipulation with computer-aided design software is desired.
- Collaborative and good communication skills.

**Salary:** As per experience, up to Rs. 1,22,960.00 per month.

**Terms of appointment:** Initially for an year and renewable thereafter depending on performance.

**How to apply:** Interested candidates may send their CV/resume along with a cover letter by email to: [konduriadi@iisc.ac.in](mailto:konduriadi@iisc.ac.in) (in pdf format, with subject marked “Advertisement No. CDS/KA/AUG2021/PD”).

In the resume, provide evidence to meeting the essential qualifications listed above.

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**Online interview:** Based on the applications, candidates will be called for online interviews.

**Last date for application:** Rolling advertisement until the position is filled.

**Contact details:**

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