



Indian Institute of Technology Gandhinagar Advertisement for Research Position in Computational modeling of next-generation fire extinguishers

IIT Gandhinagar invites applications for **1** research and development position at the junior research fellow (JRF) level in the area of computational modeling of next-generation aerosol-based fire extinguishers. The work involves modeling of reactive flows (combustion of solid propellant) through relevant computational fluid dynamics framework.

Eligibility Criteria:

- Good BTech degree in Mechanical and/or Aerospace Engineering or equivalent
- Strong motivation to take-up research ventures in the field of reactive flows
- Must be GATE qualified

Required background/skills:

- Good background in Computational Fluid Dynamics and Continuum Mechanics
- Good background in Mathematics and Numerical Methods
- Good background in Thermodynamics
- Proficiency in using Linux-based systems
- Proficiency in the programming language C++
- Ability to use open-source packages (such as OpenFOAM)

Preferred background/skills:

- Familiarity with the Finite Element Method
- Familiarity with the Material Point Method
- Experience in modeling combustion problems
- Exposure to parallel computing (especially MPI)

Compensation and term of position:

Compensation will follow stipulated norms of the Institute. Initial appointment will be for 1 year with the possibility of renewal depending on performance.

How to apply:

Interested candidates are requested to submit applications online: <https://goo.gl/forms/NJyIs1donv5SmlQz1>

Deadline: The last date for application is **September 30, 2018**.

For any queries regarding the research area, please feel free to contact Prof. Gaurav Srivastava at gauravs@iitgn.ac.in.