Indian Institute of Technology Gandhinagar
Advertisement for Junior Research Fellow (Position 1)
in the area of
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:
- BTech degree + valid GATE or M.Tech in Mechanical and/or Aerospace Engineering or equivalent
- Strong motivation to take-up research ventures in the field of reactive flows

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 a programming language like C/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 be 25,000/- per month (<u>consolidated salary</u>). Initial appointment will be for 1 year with the possibility of renewal for up to two more years depending on performance.

How to apply:

Those interested are requested to download the application package from http://www.iitgn.ac.in/job.htm , e-mail a **single zipped file** containing (1) Curriculum vitae highlighting expertise (2)List of referees and their contact details and (3) a 1 page statement of purpose outlining the skill sets which you will bring and apply in the research area to gauravs@iitgn.ac.in. Please note that your **single zipped file** should be named as **<your last name>_jrf1_iitgn.zip and the subject line of the email should be "UAY- JRF1-IITGN"**. Candidates shortlisted for the interview will be informed and they are to submit the hardcopies of all these documents, if they are selected. <u>Incomplete application forms i.e. resumes only without the application form and applications without statement of purpose will be ignored.</u>

Deadline: The last date for application is **September 7, 2016**.

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