



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
 भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
 కంది-502 284, సంగారెడ్డి, తెలంగాణ, భారత  
 ఫోన్: (040) 2301 6033; ఫేక్స్: (040) 2301 6003/32  
**Indian Institute of Technology Hyderabad**  
 Kandi -502284, Sangareddy, Telangana, India  
 Phone: (040) 2301 6033; Fax: (040) 2301 6003/32

## Advertisement for the posts of 1 JRF and 1 Post-Doctoral Fellow in DRDL Sponsored Project (Rolling Advertisement)

Applications are invited for time bound Project Appointments under the following project.

<b>Title of the Project</b>	The Experimental Investigation and Numerical Modelling of Heat Absorption Efficacy of Additive Enhanced Endothermic Rocket Fuels	
<b>Funding Agency</b>	DRDO (Defence Research Development Organization)	
<b>Duration of the position</b>	2 years (To be renewed every year for upto 2 years subject to performance and fund availability)	
<b>PI</b>	Dr. Sayak Banerjee	sayakb@mae.iith.ac.in
<b>Department</b>	Mechanical and Aerospace Engineering	
<b>PI (Joint)</b>	Dr. Debaprasad Shee	dshee@che.iith.ac.in
<b>Department</b>	Chemical Engineering	
<b>Post</b>	<b>Fellowship</b>	<b>Qualification</b>
<b>Junior Research Fellow (JRF)</b> - Design and Operation of Supercritical Endothermic Fuel Cracking Flow Reactor -immediate hiring after selection	Rs. 37,000 per month (Hostel facility subject to availability. Otherwise HRA will be provided)	<b>Minimum Qualification:</b> - B.Tech/B.E. (1 <sup>st</sup> Class) in Chemical, Mechanical or Thermal/Power Plant Engg. - M.Tech/M.E. in Chemical, Mechanical or Thermal/Power Plant Engg. (min. CGPA 6.0) <b>Desired Qualification:</b> Experimental Research Experience in the field of Pyrolysis, Reactive Flows, Fuels or Thermo-Chemical Applications. Familiarity with GC/MS based analysis.
<b>Post-Doctoral Fellow</b> -Development of CFD and Conjugate Heat Transfer model of the endothermic fuel reactor using ANSYS-FLUENT environment -ML based optimization of endothermic fuel channel design based on numerical simulations and experimental data - immediate hiring after selection	Rs. 58,000 + HRA per month. (Accommodation subject to availability)	<b>Minimum Qualifications:</b> - PhD in Mechanical/Chemical/Thermal Engineering Fields. <b>Desired Qualification:</b> -Expertise in Computational Fluid Dynamics and Heat Transfer and Modelling of Reactive Systems in Flow Environment. -Familiarity with the ANSYS-FLUENT or other similar CFD software platforms. -Familiarity with ML based optimization platforms

## Application Process

Eligible applicants should fill up the google form (<https://forms.gle/AWQscqYN8NeRX5qH9>)

Documents to be **uploaded in the google form** are

1. Latest CV, Age Proof and Photo ID (Candidates must be Indian citizens)
2. Scanned/Digital copy of degree certificate and grade sheet/transcripts
3. JRF Candidates: 2 page extended abstract on their M. Tech project.
4. Post-Doctoral Candidates: 4 page synopsis on their PhD research project and list of publications

### Letters of recommendation:

Post-Doctoral candidates are strongly encouraged to submit two Letters of Recommendation at least one of which will be from their PhD supervisor. Please instruct your recommenders to directly send their LOR to [sayakb@mae.iith.ac.in](mailto:sayakb@mae.iith.ac.in).

## Selection

- This is a rolling advertisement; the PIs will evaluate and shortlist the applications received every 15 days until suitable candidates are selected.
- Candidates will be shortlisted by the PIs and the selection committee based on eligibility and fit with respect to the advertised position.
- Shortlisted candidates will be called for an online interview. Shortlisted candidates will be intimated about interview date and time by email.
- Candidates with prior relevant experience will be given preference.
- Joining will be immediate after selection.
- The position will be kept open if no suitable candidate is found.

*Sayak Banerjee*

Dr. Sayak Banerjee  
Asst. Professor  
MAE Dept., IITH

*Debaprasad Shee*

Dr. Debaprasad Shee  
Assoc. Professor  
ChE Dept., IITH