



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

కంది, సంగారెడ్డి-502 284, తెలంగాణ, భారత్  
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कंदी, संगारेड्डी - 502 284, తెలంగాణ, భారత్  
ఫోన్: (040) 2301 6999 ఫ్యాక్స్: (040) 2301 6000  
Kandi, Sangareddy - 502 284, Telangana, India  
Phone: (040) 2301 6999 Fax: (040) 2301 6000

## Advertisement for the post of 1 Post-Doctoral Fellow in Sponsored Project at the Department of Chemical Engineering

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

<b>Title of the Project</b>	Application of Deep learning techniques for Robust Optimal Design of Integrated Water networks towards sustainable water management in Petroleum Refineries
<b>PI</b>	Prof. Kishalay Mitra
<b>Co-PI</b>	Prof. Raja Banerjee
<b>Department</b>	Chemical Engineering
<b>Post</b>	Post-Doctoral Fellow
<b>Fellowship</b>	Rs. 58000/- per month
<b>Minimum Qualifications</b>	Ph.D. in Operations Research, Optimization, Applied Mathematics, Chemical Engineering, Industrial Engineering, or a related field
<b>Desirable Qualifications</b>	<ul style="list-style-type: none"><li>● Expertise in mathematical modeling and multi-objective optimization</li><li>● Experience with deep learning &amp; AI techniques</li><li>● Strong mathematical background in Nonlinear Programming (NLP) &amp; Mixed-Integer Optimization (MILP/MINLP)</li><li>● Experience with large-scale optimization</li><li>● Hands-on experience with computational modeling of water networks</li><li>● Knowledge of industrial water management</li><li>● Experience with GAMS/CPLEX</li><li>● Proficiency in MATLAB coding</li></ul>



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#### Application Process:

Eligible applicants should fill out the Google form (<https://forms.gle/6hPzJpE5Riq3gw2M6>). Documents to be uploaded in the Google form are:

1. Latest CV with the name and contact addresses of at least 2 referees.
2. Scanned/Digital copy of degree certificate and grade sheet/transcripts.
3. Ph. D. Thesis abstract with 2 best publications.

#### Letters of recommendation:

Candidates are strongly encouraged to instruct their recommenders to send their LOR to [kishalay@che.iith.ac.in](mailto:kishalay@che.iith.ac.in) directly.

#### Selection:

- This is a rolling advertisement; the PI will evaluate and shortlist the applications received every 15 days until suitable candidates are selected.
- The PI and the selection committee will shortlist candidates based on eligibility and fit for the advertised position.
- Shortlisted candidates will be called for an online interview. Shortlisted candidates will be informed by email about the interview date and time.
- 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.

Dr. Kishalay Mitra

Professor

Department of Chemical Engineering

IIT Hyderabad