



INDIAN INSTITUTE OF TECHNOLOGY ROPAR
Nangal Road, Rupnagar, Punjab-140001

ADVERTISEMENT FOR THE POST OF PROJECT ASSOCIATE-I (PA-I)

Applications are invited from interested and motivated candidates for the post of Project Associate-1 (PA-1) in a time bound research project for a temporary period, purely on contractual basis as per the following details.	
Position	Project Associate-I (PA-I)
Number of Vacancy	2
Project Title	Development of Robust Multi-Rate and Multi-Sensor Fusion Schemes for design of Soft-Sensor and integrated Advanced Control frameworks.
Department	Chemical Engineering, IIT Ropar
Project Tenure	1 Year (extendible on an annual basis upto 2 years or till the completion of the project, whichever is earlier)
Job Description	<p>This project focusses on developing multi-sensor fusion schemes for soft-sensing applications. Here, state of art Bayesian estimation techniques, and hybrid estimation schemes (i.e., Bayesian Estimation schemes + AI/ML modeling schemes) will be explored in developing multi-rate and multi-sensor fusion schemes for soft-sensor/virtual sensor development, and their integration in developing advanced control schemes. The developed sensor fusion schemes will be validated on simulation studies for systems related to chemical, semi-conductor and off-highway heavy vehicles, and on experimental benchmark processes.</p> <p>Candidates will get a unique opportunity to interact and get mentorship from our industry collaborators.</p> <p>Desirable skills:</p> <ul style="list-style-type: none">• Basics on Probability and Statistics, Numerical Methods.• Basic knowledge of filtering techniques such as: Kalman Filters, Extended Kalman filters and Sampling based filters.• Good programming skills in MATLAB / Python• Background on data driven modelling using AI/ML techniques is an edge.• Knowledge on Model based controller design will be an edge.• Good communication and written skills.

Essential Qualification	B.Tech/BE or M.Tech/ME in Chemical Engineering/ Instrumentation and Control Engineering /Electrical Engineering/Aerospace Engineering/ Data Science/Artificial Intelligence from a recognized University or equivalent.
Age Limit	PA-I-35 Yrs., relaxation as per Government norms
Age relaxation	The upper age limit is relaxable up-to 5 years in the case of candidates belonging to scheduled castes/tribes/OBC, women and physically handicapped candidates.
Fellowship	<ul style="list-style-type: none"> i. Rs. 31,000/-+ HRA to scholars who are selected through <ul style="list-style-type: none"> a) National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions. ii. 25000/- + HRA for others who do not fall under (i) above

The engagement will be initially for a period of 12 months which may be extended or curtailed depending on the duration of the tenure of the sponsored project/satisfactory performance or conduct of the appointee; as the case may be. The engagement will be purely on temporary basis and shall not be an IIT Ropar appointment, temporary or otherwise and shall not entitle the appointee to any right/claim whatsoever, implicit or explicit, for his/her consideration against any IIT Ropar post/fellowship.

How to Apply:

1. Eligible candidates are required to apply ONLINE only through the below given application form.
2. Completely filled application form (as given below) along with biodata/CV, and testimonials (marksheets, transcripts, experience certificates, valid category certificate, if applicable) may be emailed together as a single PDF document to vjayaram@iitrpr.ac.in
3. The subject line for the email may be written as follows: **PDH-Project Associate-1-Application-First Name-Second Name**
4. Candidate should have a valid email before applying online.
5. Readable scanned copies of Mark sheet (SSC, HSC, Graduation, Master, PhD, etc.) should be submitted along with the application (as stated above)

Other details:

The application should be received before 5 PM, 25/01/2024. Late applications will not be considered.

The prescribed educational qualifications are a bare minimum and mere possession of the same will not entitle candidates to be called for interview. Where the number of applications received in response to this notice of engagement is large, it may not be convenient or possible to interview all the candidates. Based on the recommendations of the Screening Committee, the Project Leader may restrict the number of candidates to be called for interview to reasonable limits after taking into consideration qualifications and experience over and above the minimum qualifications

prescribed in the Notice. Therefore, it will be in the interest of the candidates to mention all qualifications and experience in the relevant field as on the date of advertisement.

All shortlisted candidates will be required to appear before the Selection Committee for an online interview. The URL link for online interview will be provided to shortlisted candidates. No interview call letter will be issued separately.

Selected candidates will have to join duty immediately on receipt of the offer of engagement.

For any queries please contact:

Dr. Jayaram Valluru

Principal Investigator

Assistant Professor

Dept. of Chemical Engineering, IIT Ropar, Punjab.

vjayaram@iitrpr.ac.in

Mob.No: 9347611612

APPLICATION FORM

Personal Details

Full Name (in capital letters)				
Date of Birth (DD/MM/YYYY)		GENDER		Affix a recent passport size photograph
Category (attach valid certificate, if applicable)		Martial status: (Single/ Married)		
Permanent Address		Address for communication		
Mobile No.		Email:		

Details of School/College/Institute/University studied (from Matriculation onwards)

Degree	Discipline	School/College/Institute/University	Regular/Part-time	Year graduated	% Marks/CGPA

Qualifying Examination (GATE/NET or other as applicable) *

Qualifying examination	Branch	Year	All India Rank	Score	Valid upto (DD/MM/YYYY)

*Essential for the position of PA-1 (i)

Professional Experiences (Teaching /Research/Industrial), if any

Name of the organization	Designation	Nature of work/ Responsibilities	Start date (DD/MM/YY)	End date (DD/MM/YY)

Research Publication(s), if any (Please use the IEEE style for the bibliography)

- 1.
- 2.
- 3.

Other relevant information (such as details of project/experience/awards/patents, if any)

- 1.
- 2.
- 3.

Referees (Please provide details of at least 2 referees)

Name	Current position and Affiliation	Email ID	Mobile number	Relation with the applicant

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this applications form are correct to the best of my knowledge and belief. If selected for the position, I promise to abide by the rules and discipline of the Institute/laboratory. I note that the decision of the Institute is final regarding the selection. The Institute shall have the right to expel me from institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuation in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Signature of Applicant

Date:

Name: