भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Department of Electrical Engineering
Indian Institute of Technology Hyderabad
Kandi, Sangareddy – 502 285, Telangana, India

Advertisement for the post of Research Associate I in the Department of Electrical Engineering, IIT Hyderabad

25 April 2025

Applications are invited from candidates with *excellent academic background* and *excellent mathematical skills* for the *research project* entitled, '*Innovative and cost-effective detection and removal of harmful heavy metal ions and micro plastics from water with novel sensing mechanisms, analog circuits and light-weight AI on the edge*' in a purely time-bound manner undertaken in the Department of Electrical Engineering, IIT Hyderabad.

This is a rolling advertisement with no last date for application. Applications will be invited till suitable candidate is found. Details are as follows:

Name of the post	Research Associate I
Number of vacancies	1
Title of the research project	Innovative and cost-effective detection and removal of harmful heavy metal ions and micro plastics from water with novel sensing mechanisms, analog circuits, and light-weight AI on the edge
Description of the job	Conducting electrochemical sensing experiments of heavy metal ions and microplastics in water, Developing smart sensing systems
Sponsoring agency	Department of Science and Technology
Appointment period	3 months, extendable to 6 months (renewal will be done every three months subject to satisfactory performance and continued funding availability)
Remuneration	INR 58,000 per month (consolidated)
Essential qualifications	First-class Bachelor's degree (B.Tech/B.E.) in Water Resources /Chemical/Materials Engineering/Metallurgical Engineering allied areas from a recognized university AND First-class Master's degree (M.Tech/ M.E.) in Water Resources / Environmental/Chemical Engineering/Materials Engineering/allied areas from a recognized university AND Doctor of Philosophy (Ph.D.) in Materials Engineering/ Chemical Engineering/ Water resources/ allied areas from a recognized university (Thesis submitted can also apply)

Prof Amit Acharyya

Desirable qualifications	➢ Strong mathematical and analytical skills ➢ Previous experience in electrochemical sensing, programming, embedded systems, IoT, AI is desirable ➢ At least one publication in peer reviewed journal related to sensors is highly desirable
Age limit	32 years

- Eligible applicants should send the following documents via email to **amit_acharyya@ee.iith.ac.in** with the subject of email as "**RA DBT <Applicant Name>**":
  1. Latest CV with photograph
  2. Scanned copy of degree certificates and grade sheets/ transcripts for both BTech and MTech
  3. Ph.D. degree certificate or thesis submitted certificate
  4. Proof of date of birth
  5. Statement of Purpose
- Candidates will be shortlisted for an interview based on merit and need of the project, and will be informed via email.
- Shortlisted candidates will be called for an online interview.
- The selected candidate is expected to join immediately.

For any queries, please contact the PI of the project:

Prof. Amit Acharyya
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Laboratory Webpage: **http://www.iith.ac.in/~amit_acharyya/aesicd.html**

Prof Amit Acharyya