

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Dept. of Biosciences & Bioengineering)

Dated: 06-04-2026

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the research project under the Principal investigator Name: **Prof. Debabrata Sircar**, Dept. of BSBE., Indian Institute of Technology, Roorkee.

1. Title of project: Development of a high-precision, AI-driven smart sensor for non-destructive early detection of dry and soft rot disease in potatoes.
2. Sponsor of the project: Technology Development program TIH for IoT & IoE under IIT Bombay
3. Project position(s) and number: **Project Scientist (Project Fellow) – 01 No.**
4. Qualifications: PhD (completed) in plant specialized metabolism and Master of Science (M.Sc.) Biotech, with preferably plant biotechnology as one of the subjects. Candidate must have experience in mass spectrometry-based plant metabolomics GC-MS-SPME, LC-MS, HPTLC, metabolic pathway analyses, enzyme purification, characterization from plant sources, cloning and Functional characterization of secondary metabolite genes, experience with NGS (Short read) and ONT (Long read) sequencing for transcriptomics and biosynthetic pathway elucidation with relevant publication. Candidate must have at least 5 publications with good impact factor in the relevant area as mentioned above as proof of expertise (GC-MS, LC-MS, ONT/NGS). Good knowledge of working on HPC clusters for, data processing and handling, python, MATLAB, large data analyses using machine learning experience.
5. Experience: Min. 06 years Post PhD experience
6. Emoluments: Rs. 50,000/- per month (Including HRA)
7. Duration: initially 01 (one) year and extendable till the project ends.
8. Job description: Scientific and administrative project management. Plant volatile analyses for sensor development.
9. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply. Shortlisted candidates should bring following documents at the time of interview.
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
10. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
11. Preference will be given to SC/ST candidates on equal qualifications and experience.
12. Please note that no TA/DA is admissible for attending the interview.

The last date for application to be submitted to Principal Investigator through email is **13th April 2026** by 12.00 Noon. Only short-listed candidates will be called/informed for the interview

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Debabrata Sircar
Name and signature PI
(D. Sircar)

Approved

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

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