

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
DEPARTMENT OF BIOTECHNOLOGY**

Dated: 28/09/2021

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position as per the details given below for the research project under the Principal investigator **Dr. Debabrata Sircar**, Department of Biosciences and bioengineering, Indian Institute of Technology, Roorkee.

1. Title of project: Non-invasive early sensing of soft rot and dry rot in stored potato tubers by analysis of volatile organic compound emission
2. Sponsor of the project: Science and Engineering Research Board (SERB)
3. Project position(s) and number: Junior Research fellow-JRF (One number)
4. Qualifications:
 - i. M.Sc/post-graduate degree in plant biology/botany/nanotechnology/biotechnology or M.Tech. in Nanotechnology/Biosciences and Bioengineering with minimum 60% marks/equivalent CGPA at 10 point scale (general, OBC, EWS) & 55% marks/equivalent CGPA for (SC/ST/Differently abled).
 - ii. Prior experience/Master's project experience in the area of plant metabolite analyses, HPLC, GC-MS analyses, plant pathogen handling, and nanotechnology is required.
 - iii. CSIR/UGC-NET/GATE qualification mandatory
 - iv. Age maximum (as on the last date of application): 28 years for General/EWS; 31 years for OBC; 33 years for SC/ST/Differently abled/Women
5. Emoluments: Rs. 31,000 (for first 2 years), Rs. 35,000 (from 3rd year onward)
6. Duration: For the period up to 7th March 2024, or till end of the project whichever is earlier
7. Job description: To identify metabolic reprogramming during potato/pathogen interaction, to develop nanomaterial-based transducer for sensor development, development of e-nose sensor based on selected signature volatiles, GC-MS based volatile analyses, confocal microscopy, infection studies with soft and dry rot of potato, gene expression analyses, sample collection, writing of manuscript/project progress report writing etc.
 - I. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 - II. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email:
 - Application in a plain paper with detailed CV including chronological order of degree/certificates obtained, NET/GATE qualification document, Attested copies of degree/certificate and experience certificate.
 - III. Candidate shall bring/keep with them the original degree(s)/certificate(s) and experience certificate(s) at the time of online interview for verification.
 - IV. Preference will be given to SC/ST candidates on equal qualifications and experience.
 - V. Please note that no TA/DA is admissible for attending the interview.
 - VI. The last date for application to be submitted to Principal Investigator through email is 20th October 2021 by 12.00 Noon. Only short-listed candidates will be called/informed for the interview

The interview of only short-listed candidates will be held 11:30 o'clock onward on **25th October 2021**, through online platform.

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Fax: 01332 273560

Debabrata Sircar
Name and signature PI
(D Sircar)

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

Approved
Mamish
SIRIC/06
Silman
01/10/2021