Candidates of Indian nationality are invited to appear for the Walk-in test / interview for project appointments under the following project. Appointment shall be on contractual basis on consolidated pay renewable yearly or upto the duration of the project, whichever is earlier. The specific objectives for the project are to:

1. Identify the genes responsible for the biodegradation of plastic using enrichment culture technique.
2. Use recombinant bacteria for biodegradation plastic.
3. Design and engineer microorganisms with the desired enzyme.
4. Study the kinetics of biodegradation of plastic.

In this project, Microbial Consortia for biodegradation/biotransformation of plastic will be isolated from contaminated soil using enrichment culture technique. The whole genome sequence of the potent microbial strains will be determined and the enzymes will be identified and cloned in a suitable shuttle expression vector. The recombinant bacteria overexpressing the desired enzyme will be used for biotransformation or biodegradation plastic. The enzyme may further be engineered for enhanced activity.

The specific objectives will be:

- a) Isolation and identification of plastic biodegrading bacteria
- b) Identification of the genes responsible for the biodegradation by studying the kinetics of biodegradation of plastic.

**Title of the Project**
Plastic biodegradation using microbial consortia and engineered microorganisms & enzymes with focus on Polyethylene (PE) and Polypropylene (PP) (RP04299N)

**Funding Agency**
ITC Limited

**Name of the Project Investigator**
Prof. Preeti Srivastava

**Deptt/Centre**
Department of Biochemical Engineering & Biotechnology (DBEB)

**Duration of the Project**
Upto: 30/06/2023

**Fees**
Consolidated Pay-slab / Fellowship

**Qualifications**
Ph.D. in Environmental Microbiology/Environmental Biotechnology with a minimum of 6 months experience in bioremediation

**Walk In Test / Date of Interview**
Time of Interview: 03.00 p.m.
Venue: Committee Room, Department of Biochemical Engineering & Biotechnology (DBEB), IIT Delhi, Hauz Khas, New Delhi-110016

The candidates who fulfill the above qualifications/experience should appear for the interview. Kindly bring your formal application on Form No. IRD/REC-4, which can be downloaded from IRD Website (http://ird.iitd.ac.in/rec) through proper channel along with complete information regarding educational qualifications indicating percentage of marks of each examination passed, details of work experience and a recent passport size photograph, along with original certificates (both academic & professional) for verification on the date of interview. No candidate, who is already employed at the Institute / IRD shall be interviewed unless his/her application has been duly forwarded by their concerned establishment/sections. 5% relaxation of marks may be granted to the SC/ST Candidates. In case of selection of a retired/superannuated government employee, his/her salary will be fixed as per prevailing IRD norms. A relaxation of 5% in age limit is available for SC/ST candidates. The selection committee may, at its discretion, refuse to accept the application of such candidates. In case any clarification is required on eligibility regarding the above post, the candidate may contact Prof. Preeti Srivastava at e-mail id: preeti@dbeb.iitd.ac.in

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Dated: 15/09/2022

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- Prof. Preeti Srivastava, PI, DBEB
- Copy to Chairperson, DRC/CRC

**Note:** It is requested that the contents of the above Advt. be brought to the notice of the staff working in your Deptt./Centre/Unit. To put advertisement at IITD website.