



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT122/2021

Job Title

Junior Research Fellow

Job Reference Number

50231390

Application End Date

30.07.2021

Type of Employment

Proj. Staff Contract

No. of Position(s)

1

IITB Project Recruitment:

Project title: Per/polyfluorinated alkyl substances (PFAS) removal from natural water systems using naturally derived sorbents: role of co-contaminants and regeneration chemistry

About the project: PFAS is an emerging contaminant detected in the environment. The exposure to PFAS can cause serious health concerns, therefore its removal is important. Out of the available technologies, adsorption and ion-exchange hold promise for PFAS removal. The project involves synthesis of adsorbents from natural materials and subsequently the adsorbents will be tested for their ability to remove PFAS from water samples with background solution matrix. The study will explore the role of co-contaminants in affecting the PFAS sorption behavior of the adsorbents. The regeneration chemistry and reusability of the adsorbents will be studied and their performance will be compared with commercially available ion-exchange resins.

Essential Qualifications & Experience:

The candidates should have post-graduate degree (M.Tech/M.Sc./MS) in Engineering (Civil & Environmental, Chemical) or Sciences (Chemistry). selected through a process described through any one of the following:

a. Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.

b. The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

Job Profile:

The experience in conducting lab experiments and analytical techniques in water chemistry area are desirable. Candidates with specific experience in adsorbent synthesis and its characterization are encouraged to apply.

Pay Details:

Consolidated salary Rs.31000/- p.m.

General information:

The position is temporary for a period of 6 months and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: recruit@ircc.iitb.ac.in