



INDIAN INSTITUTE OF TECHNOLOGY INDORE
Department for Biosciences and Biomedical Engineering
(Ministry of Education, Government of India)
Khandwa Road, Simrol, Indore,
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IIT INDORE

Dated: 02.09.2021

Advertisement for JRF position under DBT sponsored project

IIT Indore invites applications from highly motivated, sincere, hardworking and research oriented candidates for the position of JRF in DBT Sponsored project entitled “**Development of Novel Benzo fused Heterocycles to Improve the Treatment of Drug Resistant Tuberculosis**”. Candidates are strongly advised to visit the profile of **Prof. Avinash Sonawane** (<https://asonawane.wixsite.com/iitibsbe>) and **Dr. Venkatesh Chelvam**, Department of Chemistry, IIT Indore before applying against this advertisement.

Project Details: Tuberculosis caused by Mycobacterium tuberculosis (Mtb) is one of the leading causes of death worldwide. This scenario is further worsened due to emergence of multidrug resistant (MDR) and extremely drug resistant (XDR) Mtb strains, which makes most of the anti-TB drugs ineffective. Mtb is also able to form well-structured extracellular matrix called “biofilms”, which is responsible for increased drug tolerance and chronic disease. Therefore, there is a need to develop new drug targets with potent therapeutic applications against MDR-TB. To address these challenges, we have synthesized novel antibacterial pyridine ring fused heterocycle compounds. We plan to test these compounds against multi-drug resistant Mtb strains under in vitro and in vivo conditions. Using these compounds, we plan to improve MDR and XDR-TB therapy.

Stipend and Duration: The amount of fellowship will be as per DBT norm for a period of One year.

Educational Qualifications: M.Sc. degree in Chemistry, Biotechnology, Microbiology, Life Sciences/or in equivalent degree with first division as defined by the awarding Institute/University. Student with experience in synthesis of compounds and NET/GATE will be given preference.

How to Apply: Interested candidates are requested to send a detailed CV to **Prof. Avinash Sonawane** (asonawane@iiti.ac.in) with subject line “Application for JRF position for DBT project” latest by **September 20, 2021**. Complete information of year of passing, experience, marks, etc. should be mentioned in the CV. Incomplete applications will be rejected.

Only shortlisted candidates will be called for interview. Selected candidates will be intimated by email.

No TA/DA will be paid for appearing in the interview.

Note: The institute reserved the right to fill or not to fill the post advertised.