**Indian Institute of Technology Indore**

**Khandwa Road, Simrol, Indore 453 552**

**Dated: 03.03.2020**

**Advertisement for JRF position under BRNS-DAE sponsored project**

IIT Indore invites applications from highly motivated, sincere, hardworking and research oriented candidates for the position of JRF in a BRNS-DAE funded research project entitled **“Pharmacological evaluation of a novel asparaginase used for the treatment of childhood ALL”.** Candidates are strongly advised to visit the profile of **Prof. Avinash Sonawane** (<https://asonawane.wixsite.com/iitibsbe>), before applying against this advertisement.

**Project Details:** *Escherichia coli* asparaginase (EcA) is a central component in the treatment of acute lymphoblastic leukaemia (ALL). However, the therapeutic efficacy of EcA is limited due to its various drawbacks such as antigenicity, reduced stability, neurotoxicity and premature inactivation by the pre-existing antibodies in patients. To overcome these limitations, we created a novel EcA enzyme using rational protein engineering approach. In-vitro, ex-vivo and animal studies showed that this EcA enzyme is significantly less immunogenic, more stable and does not bind to pre- existing antibodies present in ALL patients. Here, we plan to perform pharmacokinetic, safety and efficacy evaluation studies of the developed enzyme to enhance ALL therapy.

**Stipend and Duration:** The amount of fellowship will be as per BRNS norms for the period of initially one year.

**Educational Qualifications:** M.Sc. degree in Biotechnology, Microbiology, Life Sciences/or in equivalent degree with first division as defined by the awarding Institute/University. The candidates with 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](mailto:asonawane@iiti.ac.in)) with subject line “Application for JRF position for BRNS project” latest by **March 18, 2020**. 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.