



CALL FOR PROJECT ASSOCIATES in DST-PURSE Interdisciplinary Project

Applications are invited from Indian citizens for the post of Project Associates-I and II in a DST-PURSE funded project SR/PURSE-2020/20 at BITS-Pilani Hyderabad Campus.

Title of the Research Project: **Development of Theranostic Agents for Photodynamic/ Photothermal Treatment of Oral/Lung Cancer and Related Diseases**

Project details and Desirables: (i) Design of novel BODIPY, aza-BODIPY, porphyrin and chlorin based sensitizers for imaging and PDT (ii) Development of nanoparticles and surface functionalized systems for imaging and PTT Effective conjugation of these sensitizers and NPs with folic acid and antibodies for targeted PDT/PTT, (iii) Development of localized delivery approach using microneedles and NPs for the targeted PDT/PTT (iv) Demonstration of combination therapy employing PDT /PTT

Minimum qualifications: M.Sc. in Chemistry/Physics or M. Pharm with a minimum of 60% marks.

Desired experience: The candidates should be capable of synthesizing new molecules and characterizing them. Among all positions, one student will be mainly working with the femtosecond laser and multiphoton imaging setup. Therefore, a candidate with knowledge of **optics/lasers with MSc. Physics or equivalent background** will be given preference. Overall, the project deals in an interfacial area between chemistry/optics, and biology. Experienced students with a reasonable understanding of the subjects would be preferred. The candidate with **M Pharm, Pharmaceuticals background** is expected to have experience/knowledge of general formulation development and drug delivery principles. Experience in cell culture and animal handling is desired.

Age: max 27 years; **Joining date:** As soon as possible; **Position:** Project associates I and II

No of posts: 5 (five); **Salary:** Maximum up to INR 35,000-40,000 (approx.; consolidated)

Duration: ~ 4-years (Ph. D option is also open as per the institute norm)

Candidates meeting the qualification mentioned above and experience should send their CV to dstpurbphc@gmail.com within **9 pm on 16th May'2022**.

Interviews would be possibly conducted in an online mode (mainly google) only for the selected candidates. **The selection committee's decision regarding the interview logistics and selection process for the post will be final. The selection committee reserves the right to fill or not fill the advertised post.**

