



CALL FOR PROJECT ASSOCIATES in DST-PURSE Interdisciplinary Project

Applications are invited from Indian citizens for the post of Project Associate-I/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 (v) Two-photon bioimaging using the developed sensitizers

No of posts: 1 (ONE)

Minimum qualifications:

M.Sc. in Chemistry (Physical Chemistry specialization) or M.Sc. in General Chemistry (interest in spectroscopy) can apply with a minimum of 60% marks in M.Sc.

Desired experience:

The candidate will mainly work in the field of optical characterization of the prepared molecules, laser spectroscopy and bioimaging with the theranostics agents. Therefore, a candidate with knowledge or interest in **spectroscopy or related areas** will be given preference.

Overall, the project deals in an interdisciplinary area comprising organic chemistry, materials, spectroscopy and biology. Experienced students with a reasonable understanding of the subjects and a passion to work in the interdisciplinary areas, would be preferred.

Age: max 27 years; **Joining date:** As soon as possible; **Position:** Project Associate I/II
Salary: Maximum up to INR 35,000 - 40,000 (approx.; consolidated for GATE/NET candidates). For non-GATE/NET candidate, the salary will be as per rule.
Duration: ~ 3 years (**Ph. D option is also open as per the institute norm**)

Candidates meeting the above-mentioned qualification and experience, should apply enclosing their CV to dstpurbphc@gmail.com on or before **27th May, 2023 (Sat)**.

Interviews will be conducted online (mainly google meet) only for the selected candidates by June 1st week. 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.

