



**CALL FOR JUNIOR RESEARCH FELLOW FOR THE ANRF-ARG INTERDISCIPLINARY  
PROJECT**

**12.06.2026**

Applications are invited from suitable candidates for **Junior Research Fellow (JRF) to work on the project sponsored by the ANRF (ARG, File No. ANRF/ARG/2025/002886/LS)** under the supervision of **Dr. Amit Nag, Department of Chemistry, BITS Pilani, Hyderabad Campus**. The relevant details of the project are:

**Title of the project:** “*Organelle Dynamics and Multiscale Mechanics in Hair Follicle Placode Formation: An Integrated Imaging-Based Approach to Developmental Patterning.*”

**Brief project description:** This interdisciplinary project (**PI: Dr. Tamal Das, TIFR Hyd** and **Co-PI: Dr. Amit Nag, BITS Hyd**) proposes that subcellular organelles act as key integrators of biochemical and mechanical information during the developmental transition of hair follicle placode formation. The previous research by the *Das lab* has shown that organelles such as the endoplasmic reticulum (ER), mitochondria, lysosomes, Golgi, and the nucleus respond dynamically to physical cues and regulate critical aspects of epithelial cell polarity, signaling, and gene expression. However, their roles in developmental patterning in vivo have not been systematically studied. The primary scientific responsibility of the *Nag lab* is to employ multiphoton and SHG imaging for deep-tissue, label-free visualization of intracellular and extracellular structures to achieve high-resolution subcellular analysis during placode development.

**Fellowship amount:** ₹ 37000 per month + HRA as applicable, for GATE/NET qualified candidates.  
or  
₹ 30000 per month + HRA as applicable, for non-GATE/non-NET qualified candidates.

**Duration:** Three years

**Number of vacancies:** 01 (one)

**Eligibility:** Students with **M.Sc. (Chemistry) background or any other suitable M.Sc. degree appropriate for the project, with a minimum aggregate of 60 % marks** can apply, with age not exceeding **28 years** as of the date of interview. GATE/NET qualification is desirable, but not mandatory. Fresh candidates with M.Sc. degree awaiting, also may apply.

**Desired experience/interest:** The project work at *Nag lab* deals with femtosecond laser induced non-linear spectroscopy and bioimaging of the biological tissues. Therefore, a candidate with knowledge or interest in **spectroscopy and/or microscopy or related areas** will be given preference. Overall, the project deals in an interdisciplinary area comprising materials, spectroscopy and biology. Aspiring students with a reasonable understanding of the subjects and a passion to work in the interdisciplinary areas, would be preferred.

**How to apply for the above vacancy:** Interested candidates with the eligibility requirements mentioned above, may send their CVs giving detailed information about their educational qualifications, research experience, and published research papers (if any), by **21<sup>st</sup> June (Sun), 2026** to **Dr. Amit Nag** via email: [amitnag@hyderabad.bits-pilani.ac.in](mailto:amitnag@hyderabad.bits-pilani.ac.in). The interview will be





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tentatively held online via Google Meet in the last week of June, 2026. The interview schedule will be sent to candidates via email. Only qualified and suitable candidates will be called for the online interview. Selected candidates may be permitted to register for the PhD program of BITS Pilani subject to fulfilling the requirements of the PhD qualification process as per the institute norms.

Dr. Amit Nag, Professor, Department of Chemistry

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