



### CAREERS@INTEGRAL

Adv. No. 16/2025

Dated : 19/09/2025

Online applications are invited for the following position in the Council of Science & Technology, Uttar Pradesh (UPCST) sponsored project entitled

**Redefining Therapeutics: Secondary metabolites from *Glycyrrhiza glabra*- Derived Gold-Nanoparticles as Promising Agent Against Proteiopathic Diseases (Alzheimer's and Type 2 Diabetes)**

Tenable at the Department of Biosciences, Integral University, Lucknow

S.No.	Post	Eligibility Criteria	Salary	Duration	Principal & Co-Investigator/s
1.	Junior Research Assistant	<p>1. First Class M.Sc. in Biological Sciences/ Biotechnology/ Computational Biology/ Bioinformatics/ Any other relevant field.</p> <p>2. Upper Age limit shall be 28 years on 1<sup>st</sup> April, 2025.</p> <p>3. Candidates belonging to Uttar Pradesh domicile.</p>	<p>Rs. 25,000/- per month for first two years and Rs.28,000/- in third year</p>	3 Years	<p><b>Principal Investigator:</b> Dr. Salman Khan Assistant Professor, Department of Biosciences Integral University</p> <p><b>Co-Investigator:</b> Dr. Mohd. Khubaib Assistant Professor, Department of Biosciences Integral University</p>

#### About the project:

The aim of this project is to develop a sustainable, multifunctional nanomedicine for the dual management of Alzheimer's disease and type 2 diabetes by integrating natural product chemistry with nanotechnology. Glycyrrhiza glabra secondary metabolites will be screened to identify a potent candidate capable of green synthesis of bioactive gold nanoparticles (AuNPs). The selected metabolite-derived AuNPs will be structurally and functionally characterized using TEM, DLS, FTIR, and UV-Vis spectroscopy, and their therapeutic potential will be evaluated for inhibiting protein aggregation, modulating disrupted signaling pathways, and interacting with key molecular targets shared by both diseases. This approach seeks to establish an innovative, plant-based platform for environmentally friendly nanoparticle synthesis and to advance a novel dual-action therapeutic strategy for these progressive proteiopathic disorders.

**Desirable :** Knowledge in areas of Nanotechnology, Research work experience in Cell Culture and Biochemical Techniques relevant to neurodegenerative or metabolic disease research.

#### Procedure:

Interested applicants are requested to apply online with their updated CV by **28<sup>th</sup> September 2025** at [www.iul.ac.in/career.aspx](http://www.iul.ac.in/career.aspx). Only shortlisted applicants will be informed to appear in the interview. The above post is entirely temporary and can be terminated with one-month notice. No TA/DA will be admissible for shortlisted candidates appearing in the interview. The Vice Chancellor reserves the right to cancel advertisement/selection without assigning any reasons.

**Registrar**

#### Terms & conditions:

1. The post is purely temporary and extendable till the completion of the project subject to satisfactory performance.
2. The appointment of research staff will be as per the guidelines of the Council of Science & Technology, Uttar Pradesh (UPCST).
3. Original certificates need to be presented before the interview for verification.