



**Indian Institute of Technology (Indian School of Mines), Dhanbad**  
The Office of Dean, Research & Development

Sanction No and Date: CRG/2023/000741 dt. 19.01.2024	<b>IIT (ISM) Project No.</b> <b>DST-SERB(408)/2023-2024/1073/CCB</b>	Date: 25.08.2025
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**JRF position under DST-SERB, GOI Project**

Applications are invited under a sponsored project. The details of the project are as under:

<b>Position</b>	JRF
<b>Number of Position (s)</b>	1 (One)
<b>Title of The Project</b>	<b><i>Synthesis of C-Aryl/Heteroaryl Glycosides via Photoredox-Catalyzed Homolysis of Glycosyl C-O Bonds: Application to the Synthesis of Neopetrosine Alkaloids A-D</i></b>
<b>Principal Investigator</b>	Dr. Somnath Yadav
<b>Tenure of Project</b>	Till 14.01.2027 <i>Or</i> Co-terminus with the project; whichever is earlier.
<b>Job Description (in maximum of 100 words)</b>	The selected candidate is expected to conduct studies on methodology development via photoredox catalysis and applications of the developed methodology towards target oriented synthesis. Specifically, the work would involve the development of effective methodologies for the synthesis of (hetero)aryl glycosides of biological relevance using photoredox catalysis. The work involves characterization the synthesized molecules/materials, collection and interpretation of data to help ensure the timely and successful completion of the project, in consultation with the PI.
<b>PhD Enrolment</b>	The selected candidate may be allowed to enroll for Ph.D. as per institute rules. The selected candidate may also be eligible for institute fellowship after the end of the project, if she/he is selected for institute fellowship.
<b>Essential Qualification</b>	M. Sc. (Chemistry) with 1 <sup>st</sup> Class <i>Or</i> min. 60% marks/CGPA 6.0 (if class is not awarded) <b>and</b> a valid GATE/NET (Assistant Professorship) qualification.
<b>Desirable Qualification</b>	Experience in Organic Synthesis (Project/dissertation/etc.)
<b>Age and Relaxation (if any)</b>	As per DST-SERB norms (Relaxable for SC/ST/OBC/PH candidates as per GOI norms)
<b>Fellowship</b>	Rs. 37,000/- PM
<b>Last Date &amp; Time</b>	<b>07.09.2025</b> Applications quoting the project no. "CRG/2023/000741" along with supporting documents should be sent to the PI (Dr. Somnath Yadav) via E-mail to <a href="mailto:somnath@iitism.ac.in">somnath@iitism.ac.in</a> .

Shortlisted candidates will be informed of the date of interview. Mere possession of minimum qualification does not guarantee a call to the interview. Candidates will be short listed based on their merit and as per the requirement of the project. For attending the interview, all candidates should make their own travel and accommodation arrangements at Dhanbad, if required. No TA/DA will be paid to attend the interview.