Indian Institute of Technology (ISM) Dhanbad
Office of the Dean (Research & Development)

Sanction No and Date: SG/Dev.Res/01151/2025-2028 (257167) 11/12/2025	**IIT (ISM) Project No. SRDP 1254 G**	Date: 06/07/2026

Project Staff (JRF/SRF/RA/Project Assistant/Project Associate) position under (Indian Council of Medical Research) Project

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

Position	Project Research Scientist-I (Non-medical)
Number of Position (s)	01 (One)
Title of The Project	Development and validation of digital twin to improve adjuvant treatment planning and prevent glioblastoma (GB) recurrence in post surgical GB patients.
Principal Investigator	Dr. Ajay Bhandari
Tenure of Project	3 years
Job Description (in maximum of 100 words)	The selected scientist will be responsible for the development of a patient-specific digital twin, including the integration of tissue microenvironment information extracted from magnetic resonance (MR) images. The role will involve validation and calibration of the digital twin using longitudinal follow-up MR data, as well as optimization of adjuvant treatment protocols based on insights derived from the digital twin framework. The candidate should possess strong expertise in computational tools, including computational fluid dynamics (CFD) finite element analysis (FEA), and medical image processing. Prior knowledge of python or any other coding language is desirable. In addition, the scientist will be responsible for the preparation of peer reviewed manuscripts, project progress reports, and associated technical documentation.
Essential Qualification	A First-Class M.Tech./M.E/MSc. /MS in Mechanical Engineering, Biomedical Engineering, Mathematics/ Mathematics and Computing/ Applied Mathematics with strong fundamentals in Computational fluid dynamics (CFD), finite element analysis (FEA), and medical image processing.
Desirable Qualification	• Proficiency in advanced computational and numerical tools such as ANSYS Fluent, COMSOL Multiphysics, MATLAB, Python programming, and image-processing software (3D Slicer) is

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	required. • Prior research experience in computational modeling of human tumors biomechanics is highly desirable. • Candidates holding a PhD in the relevant research areas will be given preference. • Additional preference will be accorded to applicants with peer reviewed journal publications in the specified domains.
Age and Relaxation (if any)	Upper age limit is 35 years as on 1st January 2026 for UR candidate. For SC/ST/OBC and women candidates, age relaxation will be applicable as per GoI.
Fellowship	₹ 56,000 + 20% HRA (Increment of 5% for every two years of experience subjected to performance review).
Last Date & Time	**22/07/2026 at 05:00 pm** Interested and eligible candidates should email a single PDF containing the Biodata/CV, Self-attested copies of all the marksheets and certificates starting from graduation onwards, age proof, caste certificate (if applicable), work experience to the principal investigator at ajayb@itism.ac.in within the above deadline.
Shortlisted candidates will be informed on the date of interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirement of the project. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.	

Ajay 06/07/2026

(Signature of PI)