



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR – 721 302, INDIA
Sponsored Research and Industrial Consultancy

Administrative Officer/Senior Executive Officer

ADVERTISEMENT NO. : IIT/SRIC/R/SPL/2025/101, DATED DECEMBER 01, 2025

Applications are invited through online for the following assignment in a purely time bound research project undertaken in the Department of Mechanical Engineering of this institute.

- Name of the temporary assignment : 1) Project Scientist - Magnet Design, No. of post: 1.
- Name of the temporary research project : To develop an portable, low-field MRI system capable of delivering affordable point-of-care imaging in resource-limited and bedside settings
(Project Code – R/SPL)
- Dept./Centre/School : 1) Mechanical Engineering
- PI/Co-PI : Prof./Dr. Suman Chakraborty
- Application fee(In Rs.) : 1) Not applicable
- Last date of application : December 14, 2025
- Name of the Sponsoring Agency : XIMAGING Inc., Delaware, USA(86, Broadway, New Hyde Park, NY 11040 USA)
- Consolidated Compensation (per month) : 1) upto 107000
(depending on qualification and experience)
- Qualifications & Experience : 1)
Essential Qualification :
Ph.D / M.Tech in Applied Physics, Electrical Engineering, or Mechanical Engineering with 3 to 7 years in magnet design; Specialization in magnetics, electromagnet design, or computational electromagnetics preferred;
Publications in peer-reviewed SCI index journals/society conferences/workshops (e.g. ISMRM) are preferred
- Desired Experience :
1) Experience:
Permanent magnet design, Finite Element Analysis, Magnetic shimming and homogeneity optimization, Thermal and mechanical design, Magnetic shielding, magnetic field mapping and measurement, numerical optimization, and must be comfortable to work in a multidisciplinary team of basic scientists, engineers, and clinicians alongside of strong analytical and problem-solving ability
Computer Skills: SolidWorks, Autodesk Inventor, COMSOL Multiphysics, ANSYS, MATLAB, Python
- 2) Responsibilities:
Performing simulation, magnet fabrication, assembly, and alignment process, field mapping, shimming, validation against simulation, and Prototyping;
Jointly working with gradient, RF, and reconstruction teams to ensure field compatibility
- 3) Scale in the range of 77000 to 107000 INR based on the experience
- Age Limit : 45
- Tenure : 12 Months or the termination of the project, whichever is earlier.

Note:1. The qualifications and experience prescribed are the minimum and mere possession of the same does not entitle a candidate to be called for the interview.
2. Age as on last date of advertisement.

Application fee shall be deposited in the following bank account through RTGS/NEFT/NET Banking etc. as under:
1).BANK NAME: STATE BANK OF INDIA(00202);2).BANK ADDRESS: P.O:KHARAGPUR TECHNOLOGY,DIST:MIDNAPORE;WEST BENGAL-721302;3).NAME OF BANK A/C: IIT SRIC-OM Account;4).ACCOUNT NO: 39502115210;5).IFSC CODE: SBIN0000202;6).SWIFT CODE: SBININBB339;
The transaction details(UTR No./Transaction ID etc.) should be mentioned in the Application Form.

