INDIAN INSTITUTE OF TECHNOLOGY

KHARAGPUR – 721 302, INDIA

Sponsored Research and Industrial Consultancy

ADVERTISEMENT NO. : IIT/SRIC/R/CRE/2026/101, DATED

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

Name of the temporary assignment	:	1) Project Research Assistant - Technical, No. of post: 1.
Name of the temporary research project	:	Utilization of CO2 as Bottom Stirring gas in BOF Steel making: A step towards reduction in CO2 emissions across the steel value chain (Project Code – R/CRE)
Dept./Centre/School	:	1) Metallurgical and Materials Engineering
PI/Co-PI	:	Prof./Dr. Manas Paliwal
Application fee(In Rs.)	:	General / Male / OBC: 0 , Female : 0, SC/ST: 0
Name of the Sponsoring Agency	:	Steel Research and Technology Mission of India SRTMI(A registered society under the Societies Registration Act, 1860, 5th Floor, Ispat Bhawan, SAIL, Lodhi Road, New Delhi - 110003)
Consolidated Compensation (per month)	:	1) upto 68000 (depending on qualification and experience)
Qualifications & Experience	:	1) Essential Qualification : We are looking for a skilled CFD Simulation expert with strong hands-on experience in computational fluid dynamics and numerical modelling of complex fluid flow systems. The candidate should have proven expertise in solidgas multiphase flow modelling using both EulerEuler and EulerLagrangian frameworks. A strong understanding of turbulence modelling, interphase momentum, heat and mass transfer, particle dynamics, and fluidparticle interactions is essential. Prior experience in simulating reactive systems involving chemical reactions, species transport, and coupled heat and mass transfer processes is highly desirable. The candidate should possess a sound understanding of governing equations, numerical methods, model development, and simulation result analysis, with the ability to independently set up, execute, troubleshoot, and interpret complex CFD simulation outcomes. Desired Experience : The above criterion is not applied. B.E/B.TECH and M.Tech/M.S in Materials, Metallurgy, Chemical or Mechanical Engineering. The candidates with PhD in the above disciplines are desired. However, the candidates who have submitted the thesis are also encouraged to apply. Age Limit : 40 years. Age rules may be relaxed upon fulfilling sponsor agency rules if any. Tenure : 24 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.