

**National Institute of Technology, Durgapur**  
**Department of Metallurgical & Materials Engineering**  
Mahatma Gandhi Avenue, Durgapur 713209, West Bengal

Advt. No.: NITD/MME/IAMSN/AKM/2025/01

Date of Advt.: 11-06-2025

Applications are invited from Indian citizens for the following post to work in a project funded by IAMSN.	Postdoctoral fellow
Name of the Project	Feasibility Studies of Environment-Friendly Sustainable Steel Making Process by using high alumina, high phosphorus containing Australian and Indian iron ore by Hydrogen Plasma
Sponsored Agency	India-Australia Minerals Scholar Network (IAMSN) Program
No. of Post	One (01)
Duration	01 years (06 months in India + 06 months in Australia) or termination of the project, whichever is earlier and may be extended depending upon further funding.
Principal Investigator (PI)	Dr. Arup Kumar Mandal (PI)

**General Terms & conditions**

Essential Qualifications	The candidates must have Ph.D. in Metallurgical / Metallurgical and Materials / Mineral/ Chemical / Mechanical/ Environmental Engineering or Science or related branch of Engineering and Science. (Final Thesis Submitted candidates can also apply)
Desirable Qualifications/ Experience	Hands on experience in Extractive Metallurgy, preferable work experience in Iron and Steel Making/ Pyrometallurgy/ Liquid metal handling/ Hydrogen assisted iron and Steel making/ Hydrogen plasma smelting/ Reduction behavior etc. Proven research capability demonstrated through publications in peer-reviewed journals.
Fixed Stipend	INR 1,00,000/- per month consolidated in India (including HRA) (six month) and INR 2,50,000/- (including HRA) per month consolidated in Australia (six month)
Age	Upper age limit preferably should not be more than 35 years as on 30 <sup>th</sup> June, 2025 (Relaxable for 5 years for SC/ST/Female candidate)
Work Location	NIT Durgapur, M.G. Avenue, Dist.- Paschim Bardhaman, West Bengal, Pin – 713209, India and CSIRO Clayton, Melbourne, Victoria, Pin-3168, Australia
Institute right	The institute has the discretion to restrict the number of candidates to be called for the interview on the basis of screening.
Deliverables by the Candidate	<ul style="list-style-type: none"> <li>✓ Conducting a state-of-the-art literature review on the desired project</li> <li>✓ Procurement of all project related materials</li> <li>✓ Conducting experimental studies and performing technoeconomic analysis of the process</li> <li>✓ Smooth Coordination of Coordinating institute (NIT Durgapur) and funding agency (CSIRO) for project updates and deliverables.</li> <li>✓ Production of research report after completion of this project to the Principal Investigator at NIT Durgapur only.</li> <li>✓ Presentation at selected relevant events (including workshops, symposiums, and/or conferences), organized by the India-Australia</li> </ul>

	Minerals Scholar Network Program throughout the project tenure in Australia and/or India (dates to be determined). ✓ Mentor postgraduate and undergraduate project students as required. ✓ Assist in managing project-related documentation and administrative duties ✓ <b>Minimum One SCI journal publication is mandatory</b>
Others:	✓ Financial assistance for any project related travel along with visa will be funded from the project whenever scheduled. ✓ Overseas Insurance will be funded by the project ✓ The above position is purely temporary, and is for a period of one year but may be extended. Selected candidates will not be entitled to claim for regular appointments/absorption in this institute. ✓ No TA/DA will be paid for attending the interview (if any). ✓ Applications reaching after the specified date will not be considered. ✓ Canvassing in any form will disqualify the candidature.

### How to apply:

- ✓ Applications should be sent through e-mail with complete biodata along with scan copies of the self-attested mark sheets, certificates and supportive documents in a single .pdf file within 21 days from the date of advertisement to [akmandal.mme@nitdgp.ac.in](mailto:akmandal.mme@nitdgp.ac.in) . Incomplete applications will be not be considered.

**Only Shortlisted candidates will be called for interview on 08/07/2025 (Tentatively)** at the Department of MME, NIT Durgapur offline or via **online** mode. List of shortlisted candidates will be displayed at the Institute website. Queries if any, may be resolved by sending emails to [akmandal.mme@nitdgp.ac.in](mailto:akmandal.mme@nitdgp.ac.in)/ [aks.21mm1102@phd.nitdgp.ac.in](mailto:aks.21mm1102@phd.nitdgp.ac.in)

*akmandal*  
12/06/2025  
**Dr. Arup Kumar Mandal**  
Principal Investigator of IAMSIN from NIT Durgapur  
Assistant Professor  
Department of Metallurgical & Materials Engineering  
National Institute of Technology, Durgapur

**Dr. Arup Kumar Mandal**  
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