भारतीय प्रौद्योगिकी संस्थान भिलाई
जिला-दुर्ग, छत्तीसगढ़-491002
चयन अनुभाग
Indian Institute of Technology Bhilai
Dist.- Durg, Chhattisgarh – 491002
Recruitment Section
Website: www.iitbhilai.ac.in

क्रमांक/No. IITBhilai/StaffRec./2025/1550 **दिनांक/Date:** 25.08.2025

सूचना/NOTICE

Recruitment for the post of Technical Officer Ref: Advertisement No. IIT Bhilai/Staff Rec.2024/02 Date: 17.09.2024

With reference to the representation received from the applicants against the Notice bearing No. IITBhilai/StaffRec./2025/1502 dated 09.06.2025, in connection with the list of shortlisted/not shortlisted applicants for the post of Technical Officer (Post Code: 201), we have reviewed the provisional list of not shortlisted applicants. After careful consideration, we have found that no candidates from the list of not shortlisted applicants are eligible for the next stage of the selection process for the post of Technical Officer (Pay Level 10, Group A).

टिप्पणी/Note:

1. Applicants who are shortlisted are purely based on the information provided by the candidates in the application form through the online portal.
2. Action taken on the representations is informed through personal email.
3. No further correspondence shall be entertained by the institute for the said post in the future.

Syllabus for the post of Technical Officer

All the candidates are expected to study the following syllabus for the post of Technical Officer and prepare accordingly. No separate email intimating the syllabus will be sent to individual candidates by the institute. The institute will not be responsible for non checking/ delay in checking the syllabus by the candidate and claiming for any relaxation in this regard in the future.

Syllabus for written test and/or hands-on skill test

1. Central Prototyping Facility (CPF)

खंड/ Section	विवरण/Details
Working principles	Working principles of manufacturing processes such as casting, welding, forming, additive manufacturing/3D printing, machining, micromachining, non-conventional machining along their sub-types.

Hands-on skill test	Hands-on skill will be tested based on the following processes/equipment (a) different welding processes such as MIG, TIG, friction-stir welding; (b) metal forming processes such as rolling (lab-scale), sheet metal testing; (c) machining processes such as CNC machining, micro machining; (d) laser-based manufacturing such as laser cutting, laser welding, laser cladding, (e) metal additive manufacturing including laser powder bed fusion, wire arc additive manufacturing (WAAM).
Other Skills	Apart from fabrication skill involving above manufacturing equipment, skills for regular maintenance and general troubleshooting procedure for the above-mentioned equipment might also be tested.

2. Central Instrumentation Facilities (CIF)

खंड/ Section	**विवरण/Details**
2.1 Understanding of the Lab safety and protocols.	Understanding of the Lab safety and protocols.
2.2 Fundamentals of Materials Characterization	• Basic principles of: ○ Crystallography and diffraction ○ Electron-matter interaction ○ Surface and nanostructure analysis • Resolution, contrast, and magnification in imaging • Sample preparation techniques for various characterization methods.
2.3 Instrumentation and Techniques	1. Electron Microscopy · FESEM: Working principle, field emission, detectors (SE, BSE, EDS)

	· TEM: Basic working principle and operation protocols, · Sample preparation for TEM and SEM. 2. X-ray Techniques · XRD: Bragg's law, phase identification, texture, crystallite size, residual stress · XPS/AES (basics, for surface analysis) 3. Scanning Probe Microscopy · AFM: Basic working principle, imaging modes, equipment handling and operation protocols; Limitations and artifacts 4. Other CIF Tools (Basics) Basic knowledge of general handling of equipment (specific requirements e.g. electricity, space, gases/water etc.) and safety protocols. NMR, Clean room, etc.
2.3 Data Interpretation and Practical Considerations	• Hands-on skill will be tested based on FESEM and XRD equipment including all the accessory tests such EDS, EBSD, Phase analysis, texture measurement, residual stress measurement etc through XRD, thin film XRD etc. • Analysis of samples FESEM/TEM/XRD/AFM images or data • Identify common artifacts or errors of the above data • Matching characterization technique to application (e.g., crystallinity, phase, grain size, topography, composition) • Safety, vacuum systems, and cleanroom protocols

The institute would intimate the schedule of the written test and Interview shortly on the website to the candidates who have been provisionally shortlisted.

भारतीय प्रौद्योगिकी संस्थान भिलाई
जिला-दुर्ग, छत्तीसगढ़-491002
Indian Institute of Technology Bhilai
Dist.- Durg, Chhattisgarh – 491002
Website: www.iitbhilai.ac.in

चयन अनुभाग
Recruitment Section

संक्षिप्त चयनित अभ्यर्थियों हेतु दस्तावेज़ सत्यापन की आवश्यकताएं/Document Verification Requirement for Shortlisted Candidates

The shortlisted candidates must produce all the documents in original for document verification to prove their claim about their eligibility, including Date of Birth, Education Qualification, PWD certificate, Service/Experience Certificate relevant to the post from their employer (past and current), Professional certification (if applicable), etc. IIT Bhilai reserves the right to determine the relevance of any professional experience to the post applied.

If the candidate is not able to produce all the relevant documents in the original form for document verification, and/or if the information provided by the candidate is found to be incorrect, the candidature will stand automatically cancelled without any further notice.

All concerned are hereby advised to keep visiting the institute website regularly for any further updates.

कुलसचिव/**Registrar**
भा.प्रौ.सं. भिलाई /IIT Bhilai