



**National Institute of Foundry and Forge Technology (NIFFT)  
Hatia; Ranchi – 834003; Jharkhand, India**

**(A Centrally Funded Technical Institute (CFTI) under MHRD, Government of India)**

**RECRUITMENT FOR FILLING UP VACANCIES FOR ASSISTANT PROFESSOR (26), ASSOCIATE PROFESSOR (10) AND PROFESSOR (05)  
POSITIONS (Total: 41)**

Advt. No. NIFFT/Estt./Rect./2017/3772 dated 09<sup>th</sup> January, 2017

The National Institute of Foundry and Forge Technology (NIFFT), Ranchi established by Ministry of Human Resources Development (MHRD), Government of India, in Collaboration with UNDP, UNESCO in 1966 at Ranchi Jharkhand, offers B. Tech. degree in Metallurgy and Materials Engineering, and Manufacturing Engineering, M. Tech. degree in Material Science and Engineering, Manufacturing Engineering, Foundry-Forge Technology, and Environmental Engineering, PhD and Advanced Diploma in Foundry Technology and Advanced Diploma in Forge Technology.

The Institute has five departments of studies namely Foundry Technology, Forge Technology, Manufacturing Engineering, Materials and Metallurgical Engineering and Applied Science and Humanities. Students are selected for admission through Joint Entrance Examination (JEE-Main) for B. Tech. course; through Centralized Counseling of M. Tech. (CCMT) for M. Tech courses: through written test and Interview for doctoral and Advanced Diploma courses conducted by NIFFT.

Applications are invited from Indian nationals possessing good academic background along with self-motivation to quality teaching and research for faculty positions at all levels for the following departments from all categories (General, SC, ST, OBC & PwD).

1. Foundry Technology
2. Forge Technology
3. Manufacturing Engineering
4. Materials and Metallurgical Engineering
5. Applied Science and Humanities

## **Qualification, Experience and Pay Scale:**

### **Teaching Positions: Engineering / Technology**

<b>Designation</b>	<b>Qualification</b>	<b>Experience</b>	<b>Pay scale</b>
<b>Assistant Professor</b>	A M. Tech. Degree with First Class at Bachelor's or Master's / equivalent degree in the appropriate branch of Engineering /Technology with a very good academic record throughout.		<b>PB-3</b> <b>(Rs.15, 600-39,100/- + AGP Rs. 6000/-)</b>
<b>Associate Professor</b>	A Ph.D. Degree with First Class at Bachelor's or Master's/ equivalent degree in the appropriate branch of Engineering /Technology with a very good academic record throughout.	At least Eight years of teaching / research / industrial experience in the relevant field/related areas at the level of Assistant Professor or equivalent.  Or  In the event the candidate is from industry and the profession, the following shall constitute as essential:  Master degree with First Class at Bachelor or Master Level in appropriate branch of Engg./ Technology.  Significant professional work which can be recognized as equivalent to a PhD Degree in appropriate branch of Engg. &Tech and industrial / professional experience of eight years in a position equivalent to the level of Assistant Professor.	<b>PB-4</b> <b>(Rs. 37,400-67,000/- + AGP Rs. 9,000/-)</b>

<b>Professor</b>	A Ph.D. Degree with First Class at Bachelor's or Master's/ equivalent degree in the appropriate branch of Engineering /Technology with a very good academic record throughout.	<p>At least ten years of teaching/research and/or industry experience in the relevant field/related areas out of which at least five years at the level of Associate Professor or equivalent.</p> <p style="text-align: center;">Or</p> <p>In the event the candidate is from industry and the profession, the following shall constitute as essential:</p> <p>Master degree with First Class at Bachelor or Master Level in appropriate branch of Engg./ Technology.</p> <p>Significant professional work which can be recognized as equivalent to a PhD Degree in appropriate branch of Engg &amp;Tech and industrial / professional experience of ten years out of which at least five years at a senior level equivalent to Associate Professor.</p>	<p><b>PB-4</b></p> <p><b>(Rs. 37,400 - 67,000/- + AGP Rs.10,000/-)</b></p>
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**Teaching Positions: Science and Humanities**

<b>Designation</b>	<b>Qualification</b>	<b>Experience</b>	<b>Pay scale</b>
<b>Associate Professor</b>	A Ph.D degree with 1 <sup>st</sup> class at Bachelor's or Master degree in appropriate branch of Science/ Engineering/Technology with at very good academic record throughout.	<p>At least Eight years of teaching / research / industrial experience in the relevant field/related areas at the level of Assistant Professor or equivalent.</p> <p style="text-align: center;">Or</p> <p>In the event the candidate is from industry and the profession, the following shall constitute as essential:</p> <p>First Class Master's Degree in the appropriate branch of Engg. &amp; Tech.</p> <p>Significant professional work which can be recognized as equivalent to a PhD Degree in appropriate branch of Engg. &amp;Tech and industrial / professional experience of eight years in a position equivalent to the level of Assistant Professor.</p>	<p><b>PB-4</b></p> <p><b>(Rs. 37,400- 67,000/- + AGP Rs. 9,000/-)</b></p>

<b>Professor</b>	A Ph.D degree with 1 <sup>st</sup> class at Bachelor's or Master degree in appropriate branch of Science/ Engineering/Technology with at very good academic record throughout.	At least ten years of teaching/research and/or industry experience in the relevant field/related areas out of which at least five years at the level of Associate Professor or equivalent.  or For candidate from industry with engineering background will have the essential and desirable qualification as mentioned for the candidates in Engineering department.	<b>PB-4</b>  <b>(Rs. 37,400 - 67,000/- + AGP Rs.10,000/-)</b>
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**The requirement of specializations for Faculty Position in various Departments is given below:**

Department	Appropriate Branch of Engineering and Sciences	Specialization
<b>Department of Forge Technology</b>	Metallurgy and Material Engineering/Mechanical/Production/Manufacturing /Industrial Engineering & Technology/ Foundry & Forge Technology	Deformation of ferrous/non-ferrous material, Forging of Special Alloys, Forging Die-Design, Heat Treatment Technology, Near –Net Shape Processing, Tribology, Modelling and Simulation of Metal Forming (Specially Forging), Robotics and Automation in Metal Forming, Advance Forming Process like HIP/3D Printing/Additive Forming, Industrial Furnaces, Mechanical Metallurgy
<b>Department of Manufacturing Engineering</b>	Mechanical/Production/Manufacturing/ Industrial Engineering/Applied Mechanics/Thermal Engineering/Mechanical Design/Computer Science and Engineering/CAD & CAM	Applied Mechanics, Solid mechanics; Fluid mechanics; Computer Application in Mechanical Engineering,, Thermodynamics, Heat and Mass Transfer, Welding, Kinematics and Dynamics of Machine, Metal Forming, Operation Research, Mechanical Design, Design of Machine Elements, Metrology, CAD/CAM and Robotics, IC Engine, Finite Element Method, Fluid Machinery, Refrigeration and Air Conditioning, Power plant Engineering, Tribology, Industrial Engineering, Reliability Engineering, Automobile Engineering, Advance Manufacturing Process, Machine Tool, Machine Tool design, Metal Cutting, Computational Methods For Engineers, Manufacturing System Engineering, Precision Engineering, Mechatronics. Computer Science and Engineering, TQM
<b>Department of Foundry Technology</b>	Metallurgy/Mechanical/Production/Manufacturing /Industrial Engineering & Technology/ Foundry & Forge Technology	Non-ferrous castings technology, Methoding of castings, Iron Casting and steel Production, Modeling and simulation, Modern Foundry Process, Rapid solidification, Liquid metal treatment, Interaction of liquid metal with mould and furnace wall. Computer application for simulation, flow and solidification etc in Foundry technology, Process Metallurgy, Industrial Metallurgy, Industrial Furnaces.

<b>Department of Materials and Metallurgical Engineering</b>	Metallurgy/Materials and Metallurgical Engineering and Technology/Materials Science and Engineering, Mechanical Metallurgy, Industrial Metallurgy, Nano Technology	Phase transformation and alloy development; Powder metallurgy; Ferrous and non-ferrous metallurgy; Welding metallurgy; Steel and iron making; Metal Forming; Corrosion engineering; Composites; Ceramics, Surface coating and deposition; Nano-structured Materials; Energy storage materials; Materials for sensor development; Single crystal growth. Biomaterials, Computer application in Materials Engineering, Destructive and nondestructive Testing and Inspection techniques; Fuels and Mineral Engineering, Fracture Mechanics, Materials characterization
<b>Department of Applied Science and Humanities</b>	Environmental Engg.; Environmental Science, Civil Engg., Materials Science/ Engg.; Chemistry; Physics, Surface Science & Engg.	Air pollution monitoring and control technologies; Remote Sensing & GIS, Industrial Waste utilization Pollution control devices Engg., Environmental System Modeling, Geo-Environmental Engg., Sewerage Treatment, Equipment & Project Design. Solid state physics, Semiconductor materials, Thin films, Nano Technology, Structure property analysis of materials, Analytical chemistry. Polymers, Ceramics & Composite materials, Materials characterization, Thinfilms, Nanotechnology

### **General Conditions:**

- 1 Incomplete application in any respect will not be entertained by the Institute.
2. Mere fulfillment of the above mentioned qualification & experience does not entitle a candidate to be called for interview. Institute will further make the criteria on the recommendations of the Scrutiny committee to arrive at a reasonable number of candidates to be called for interview for each Department.
3. The Institute reserves the right to consider and fill or not to fill positions in any of the specializations/Departments
4. Separate applications must be submitted if a candidate is applying in more than one department.
5. A Demand Draft of Rs. 1,000/-, drawn in favour of “**NIFFT, Ranchi**” payable at any nationalized bank in Ranchi for each application (50% in case of SC / ST & fully exempted for women & PwD candidates).
6. Candidates already in service should send their applications through proper channel. However, an advance copy along with required fee/ certificates / detailed marks sheets / documents etc. may be sent directly.
7. Preference will be given to candidate who have: One of the Degrees from a premier Institute of India viz, IITs, IISc, JNU or any other Institute of National Importance Research experience in an organization of repute outside / inside India and /or independent research guidance / research project. Industrial experience in the field of Foundry, Forge, Manufacturing and Metallurgical Industries.
8. Reservation policy will be applicable as per the MHRD (Govt. of India) norms/rules. For availing reservation, the category certificate must be submitted along with application.
9. Application form & Academic performance indicator (API) score to be submitted by the candidates in the prescribed format are available in Part – A and Part – B of the application form.
10. 3% of the vacancies are reserved for persons with disabilities as per GOI rules subject to producing the Disability Certificate in the prescribed format issued by the Competent Medical Board.
11. No correspondence, whatsoever, will be entertained from the candidates regarding postal delays, conduct and result of Interview and reasons for not being called for Interview or selection.
12. The age of retirement is 65 years for all posts as per present Rule.

13. Completed applications in all aspects in the prescribed format and copies of self attested documents supporting qualification, experience, publications etc. should be sent to the address of the Director, NIFFT, Hatia, Ranchi-834003 latest by 28<sup>th</sup> February, 2017.

**Notes:**

1. All qualifications and experience will be considered as on the closing date for receipt of applications.
2. Higher starting pay may be offered to deserving candidates on recommendation of the selection committee.
3. Post wise reservation will be followed as per Government of India Reservation policy applicable to centrally funded Technical Institution
4. Submission of Academic Performance Indicator (API) Score in the prescribed format and acquiring minimum score as stipulated is essential for the post of Professor and Associate Professor.
5. Candidates may have to deliver lecture at the interview stage.
6. The minimum requirement of qualifications and/or experience may be relaxed in respect of extra ordinary candidate.

**The following perks are given to the newly appointed faculty:**

Professional Development Allowance (PDA) of ₹ 3.0 Lacs in a three year block, for attending conference in india as well as abroad, and for membership of professional bodies, etc.

Medical Facilities as per Medical Attendance and Treatment Rules of the Institute. Leave Travel Concession (LTC) as per the Government of India rules. Children Education Allowance as per the Government of India rules.

Institute residence in the campus ( HRA will be given if Institute is not able to provide institute quarters in the Campus)

**Location of the Institute**

The Institute is situated on the southern periphery of Ranchi at NH – 75, on the Ranchi-Chaibasa highway at Hatia about 10 kms from Ranchi Railway station, about 6 kms from Ranchi Airport, about 2.2 kms from Hatia Railway Station making it easily accessible via Rail as well as Airways.

Ranchi, being the capital of state of Jharkhand, located at little over 600 meter height above mean sea level, has a very moderate and pleasant climate all through the year and it was summer Capital of Bihar. The NIFFT campus is spread over an area of 55 acres. It houses the administrative building, academic buildings, halls of residence for students, faculty quarters, staff quarters, grounds, library, auditorium, laboratories, workshops, Gymkhana, Bank, Post Office, Telephone exchange, ATM, 24 hours power supply backed by 2 x 320 KVA Generators etc.