



**NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR**  
**JAMSHEDPUR-831014, JHARKHAND**

(An Institution of National Importance under MHRD, Government of India)

**Advertisement No. NITJSR/REG/P/2014/01**

**Date: 17/05/2014**

**Walk-In-Interview for Appointment of Adhoc Faculty**

**INFORMATION BROCHURE**

**1. ABOUT THE INSTITUTE**

National Institute of Technology Jamshedpur is one of the National Importance Institutions for Technical Education in India. This was formerly known as Regional Institute of Technology Jamshedpur. National Institute of Technology (NIT) Jamshedpur is an Institution of National Importance set up by an Act of Parliament (Act 29 of 2007) namely, the National Institutes of Technology Act, 2007, which received the assent of the President of India on the 5th June, 2007. The provision of the Act has come into force with effect from 15<sup>th</sup> August, 2007 as per Notification S.O.1384 (E) dated 9<sup>th</sup> August, 2007 of the MHRD (Department of Higher Education), New Delhi. As per the provision of the said Act, this Institution runs on non profitable basis. NIT Jamshedpur offers academic programmes: B. Tech. (Hons.), M. Tech., MCA and Ph.D. in the various disciplines. NIT Jamshedpur has well qualified faculty and dedicated supporting staff.

**2. Appointment of Adhoc Faculty in NIT Jamshedpur**

Applications are invited from academic personnel/professionals from Academic Institutes, R&D Labs, and Industry in India or abroad for the Post of Adhoc Faculty in NIT Jamshedpur on contract basis for one year (temporary) with consolidated remuneration for effective teaching and commitment to enhance the research activities in the Department. Eligible candidates have to report for walk-in-interview at Computer Centre of the Institute as per the schedule given below:

<b>Sl. No.</b>	<b>Department</b>	<b>Date &amp; Time of Walk-in-interview</b>
1.	Physics	11/06/2014 (Wednesday) at 9:00 AM
2.	Electrical and Electronics Engineering	12/06/2014 (Thursday) at 9:00 AM
3.	Electronics and Communication Engineering	13/06/2014 (Friday) at 9:00 AM
4.	Mechanical Engineering	14/06/2014 (Saturday) at 9:00 AM
5.	Manufacturing Engineering	15/06/2014 (Sunday) at 9:00 AM
6.	Computer Applications	16/06/2014 (Monday) at 9:00 AM
7.	Humanities, Social Sciences and Management	17/06/2014 (Tuesday) at 9:00 AM
8.	Mathematics	18/06/2014 (Wednesday) at 9:00 AM
9.	Computer Science Engineering	19/06/2014 (Thursday) at 9:00 AM
10.	Chemistry	20/06/2014 (Friday) at 9:00 AM

Information brochure, prescribed application form, summary sheet, academic and professional qualifications, schedule of interviews and remuneration details can be downloaded from the Institute website: [www.nitjsr.ac.in](http://www.nitjsr.ac.in). Eligible candidates have to report for walk-in-interview at computer centre of the Institute with original certificates along with one set of the self attested photocopy of the certificates and two latest passport size colour photographs.

### 3. Details of Remuneration and Age

Name of the Post	Adhoc Faculty
Remuneration in Rs.	Rs. 40,000 pm (consolidated)
Age limit	Not Exceeding 40 years

### 4. Academic and Professional Qualifications

#### 4.1 Engineering Disciplines

Name of the Department	Qualifications
1. Computer Science Engineering 2. Electrical and Electronics Engineering 3. Electronics and Communication Engineering 4. Mechanical Engineering 5. Manufacturing Engineering	<ul style="list-style-type: none"> <li>Ph.D with first class or equivalent at the preceding degree in the appropriate discipline with consistently good academic record throughout</li> </ul> <p>(OR)</p> <ul style="list-style-type: none"> <li>The person should have PG degree in the appropriate discipline from reputed Institute with consistently good academic record throughout and also 2 years teaching experience from a reputed Institute</li> </ul>

#### 4.2 Disciplines of Humanities, Social Sciences, Management and Applied Sciences

Name of the Department	Qualifications
1. Computer Applications	<ul style="list-style-type: none"> <li>Ph.D with first class or equivalent at the preceding degree in the appropriate discipline with consistently good academic record throughout</li> </ul> <p>(OR)</p> <ul style="list-style-type: none"> <li>The person should have MCA/M.Tech/MS degree in the appropriate discipline with consistently good academic record throughout and also 3 years teaching experience from a reputed Institute</li> </ul>
2. Mathematics 3. Physics 4. Chemistry	<ul style="list-style-type: none"> <li>Ph.D with first class or equivalent at the preceding degree in the appropriate discipline with consistently good academic record throughout</li> </ul> <p>(OR)</p>

	<ul style="list-style-type: none"> <li>The person should have M. Tech/M. Sc. degree in the appropriate discipline from reputed Institute with consistently good academic record and also 3 years teaching experience from a reputed Institute</li> </ul>
5. Humanities, Social Sciences and Management	<ul style="list-style-type: none"> <li>Ph.D with first class or equivalent at the preceding degree in the appropriate discipline with consistently good academic record throughout</li> </ul> <p style="text-align: center;">(OR)</p> <ul style="list-style-type: none"> <li>The person should have PG degree in the appropriate discipline from reputed Institute with consistently good academic record throughout and also 3 years teaching experience from a reputed Institute</li> </ul>

### 5. Departments and Area of Specializations

Sl. No.	Department	Areas of Specialization
1.	Computer Science Engineering	<ul style="list-style-type: none"> <li>High Performance Computing</li> <li>Computer Network</li> <li>Model Driven Architecture</li> <li>Software Engineering</li> <li>Design of LAN</li> <li>Knowledge Engineering</li> <li>Information Security</li> <li>Cryptography and Network Security</li> <li>Mobile adhoc Networks</li> <li>Artificial Intelligence</li> <li>Real-time systems</li> <li>Programming Languages</li> <li>Algorithms</li> <li>Operating Systems</li> <li>Image Processing</li> <li>Evolutionary Computing</li> <li>Cloud Computing</li> <li>Computer Architecture</li> <li>DBMS and Data Mining</li> </ul>
2.	Electrical and Electronics Engineering	<ul style="list-style-type: none"> <li>Power Systems</li> <li>Power Electronics and Drives</li> <li>Digital Signal Processing</li> <li>Industrial Electronics / Applied Electronics</li> <li>Instrumentation</li> <li>Energy Engineering</li> <li>Control Systems</li> <li>High Voltage Engineering</li> </ul>

3.	Electronics and Communication Engineering	<ul style="list-style-type: none"> <li>• Communication Engineering</li> <li>• Communication Systems</li> <li>• VLSI Design and Embedded Systems</li> <li>• Instrumentation and control</li> <li>• Signal Processing</li> <li>• Computer Communication and Network Security</li> <li>• Analog and Digital Circuits</li> <li>• Wireless and Mobile Communication</li> <li>• RF and Microwave Engineering</li> </ul>
4.	Mechanical Engineering	<ul style="list-style-type: none"> <li>• Design Engineering (Applied Mechanics, Engineering and Machine drawing, Design of Machine elements, Mechanical Systems Design, Vibrations, Kinematics and Dynamics of Machines, Mechanics of solids, CAD, FEM)</li> <li>• Materials Science and Technology</li> <li>• MEMS and Nanotechnology</li> </ul>
5.	Manufacturing Engineering	<ul style="list-style-type: none"> <li>• Metal Casting / Foundry Technology</li> <li>• Metal Cutting</li> <li>• Metal Forming</li> <li>• Welding Technology</li> <li>• Cutting Tool and Fixture Design</li> <li>• Product Design and Development</li> <li>• CNC Robotics and Automation</li> <li>• Optimization Techniques and Operations Research</li> <li>• Quality Control, Assurance and Reliability</li> <li>• Industrial Engineering</li> <li>• Manufacturing Excellence</li> <li>• Manufacturing Systems Engineering</li> <li>• Manufacturing Management</li> <li>• Sustainable Manufacturing</li> <li>• Lean Manufacturing</li> </ul>
6.	Computer Applications	<ul style="list-style-type: none"> <li>• Networking and programming</li> <li>• DBMS</li> <li>• Software Engineering</li> <li>• Artificial Intelligence</li> <li>• MIS/ERP</li> <li>• MS-SQL Server</li> <li>• C#, Java, Dot net</li> <li>• Design of LAN</li> <li>• Information Security</li> <li>• Applications of IT</li> </ul>
7.	Humanities, Social Sciences and Management	<ul style="list-style-type: none"> <li>• English for communication</li> <li>• Introduction to soft skills</li> </ul>

		<ul style="list-style-type: none"> <li>• Organizational Behaviour &amp; Industrial Psychology</li> <li>• Industrial Economics &amp; Accountancy</li> <li>• English Language Teaching</li> <li>• Social Sciences</li> <li>• Principles of Management</li> <li>• Human Resource Management</li> <li>• Professional Ethics</li> </ul>
8.	Mathematics	<ul style="list-style-type: none"> <li>• Engineering Mathematics</li> <li>• Discrete Mathematics</li> <li>• Probability and Statistics</li> <li>• Numerical Analysis/Numerical Methods</li> <li>• Differential Equations</li> <li>• Applied Mathematics</li> <li>• Mathematics for Computer Science</li> <li>• Computational Techniques and Programming</li> <li>• Computing Mathematics</li> <li>• Optimization Techniques and Operations Research</li> </ul>
9.	Physics	<ul style="list-style-type: none"> <li>• Engineering Physics</li> <li>• Condensed Matter Physics</li> <li>• Quantum Mechanics</li> <li>• Statistical Physics</li> <li>• Computational Physics</li> <li>• Applied Physics</li> <li>• Theoretical Physics</li> <li>• Experimental Physics</li> <li>• Plasma Physics</li> <li>• Electronics</li> <li>• Solar Energy</li> <li>• Nuclear Physics</li> <li>• Optics</li> <li>• Astronomy and Astrophysics</li> <li>• High Engineering Physics</li> <li>• Atomic and Molecular Physics</li> </ul>
10.	Chemistry	<ul style="list-style-type: none"> <li>• Applied Chemistry</li> <li>• Inorganic Chemistry</li> <li>• Analytical Chemistry</li> <li>• Physical Chemistry</li> <li>• Organic Chemistry</li> <li>• Theoretical Chemistry</li> <li>• Computational Chemistry</li> <li>• Surface Science and Corrosion</li> <li>• Environmental Chemistry</li> </ul>

## 6. General Information

- All Qualification, Experience and Age Limit will be recognized as on **17/05/2014**
- Prescribed application form and the summary sheet can be downloaded from the website **[www.nitjsr.ac.in](http://www.nitjsr.ac.in)**
- The filled in application form along with original certificates, one set of self attested photocopy of the certificates and two latest passport size color photographs have to be submitted at the time of Interview
- Reservations are applicable as per Government of India norms
- Mere eligibility will not vest any right on any candidate for being called for interview. The decision of the Institute in all matters will be final
- Canvassing in any manner would entail disqualification of the candidature
- Applications without complete information/supporting documents will not be considered
- The candidate will be interviewed only after scrutiny of educational and experience certificates. Hence, it is advisable to carry all the original certificates
- The experience criteria may be relaxed for exceptionally meritorious candidates
- The Institute reserves the right to fill or not to fill the post advertised
- In case of any legal dispute the jurisdiction will be limited to Saraikela Kharsawan court only
- No TA / DA will be paid for attending the interview

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