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National Institute of Technology Jamshedpur-831014
Jharkhand (India)
(An Institution of National Importance under MHRD, Govt. of India)

Advt. No. NITJSR/REG/ADVT/2017-18/CD/124

Date:03.10.2017

INFORMATION BROCHURE

ABOUT THE INSTITUTE

National Institute of Technology Jamshedpur (NIT) is an Institution of National Importance, 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. This was formerly known as Regional Institute of Technology (RIT) Jamshedpur and was establishment on 15th August 1960 with the aim of nurturing young engineers for economic growth of the Nation. NIT Jamshedpur is situated in the western part of the city Jamshedpur. The flowing river Kharkai and picturesque backdrop of low hills on the side, and large tracts of forest on the other side, make the 341.30 acres of rolling campus an ideal place for higher learning and research. NIT Jamshedpur has well qualified faculty and dedicated supporting staff.

Academic Programs

B.Tech.(Hons.): Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Metallurgical and Materials Engineering, Production and Industrial Engineering.

M.Tech. : Structural Engineering, Geotechnical Engineering, Water Resources Engineering, Computer Science and Engineering, Information Systems Security Engineering, Power Systems Engineering, Power Electronics and Drives, Embedded Systems Engineering, Communication Systems Engineering, Foundry Technology, Materials Technology, Thermal Engineering, Computer Integrated Design and Manufacturing, Energy Systems Engineering, Manufacturing Systems Engineering, Surface Science and Engineering.

M.Sc : Mathematics, Physics, Chemistry

MCA : Master of Computer Applications

Ph.D. : All Departments of the Institute

**Recruitment of Assistant Professor in PB-3 (Rs. 15,600 – 39,100) with
AGP Rs. 6000/7000/8000 in Various Departments**

1. Vacant Post:

Sl. No.	Name of the Post	Pay Sale
1	Assistant Professor *	PB-3 (Rs.15,600 - 39,100 with AGP Rs.6000/7000/8000)

Note: Posts of Assistant Professor with AGP of Rs.6000/- (On contract), AGP Rs.7000/- (On contract) and Rs.8000/- (Regular)

* A Regular Assistant Professor with AGP of Rs. 6,000/-, if selected to the Assistant Professor with AGP Rs. 7,000/- shall be designated as Assistant Professor without appending on "Contract".

2. Number of Vacant Posts:

Name of the Post	UR	OBC (Non-Creamy Layer)	SC	ST	PWD [Horizontal Reservation]	Total
Assistant Professor	57	38	17	11	04	123

NOTE I: This being an advertisement governed by the flexible faculty recruitment rules. Relevant instructions from MHRD issued till the date of interviews will be applicable on this advertisement.

NOTE II: Number of vacancies in all or any of the categories (including reserved vacancies) may be increased/decreased without any notification.

NOTE III: The Institute reserves the right to modify / defer or cancel full / part of the advertisement / recruitment at any stage of processing without assigning any reasons.

3. Area of specialization in following Departments:

Name of the Department	Desirable Specializations
Computer Science and Engineering	<ul style="list-style-type: none"> ◆ Computer Algorithms and Data Structures ◆ Theory of Computations ◆ Computer Architecture ◆ Microprocessors and Microcontrollers ◆ Operating Systems ◆ Parallel and Distributed Computations ◆ Software Engineering ◆ Computer Networks ◆ Database Management Systems and Very Large Database Technologies ◆ Compiler Design and Program Analysis

	<ul style="list-style-type: none"> ◆ Object Oriented Systems Design ◆ Internet and Web Technology ◆ Artificial Intelligence and Application of Machine Learning in various problem domains ◆ VLSI, Embedded and Real Time Systems ◆ Data and Network Security ◆ Digital Image Processing, Computer Vision and Object Detection ◆ Computer Graphics ◆ Multimedia Systems ◆ High Performance Computing ◆ Internet of Things ◆ Deep Learning Neural Networks ◆ Cloud Computing ◆ Formal Methods and Formal Verification ◆ Human Centric Computing
Civil Engineering	<ul style="list-style-type: none"> ◆ Water Resources Engineering ◆ Transportation Engineering ◆ Environmental Engineering ◆ GIS and Remote Sensing ◆ Geotechnical Engineering ◆ Structural Engineering
Computer Applications	<ul style="list-style-type: none"> ◆ Software Engineering ◆ Information Systems Security Engineering ◆ Database Management ◆ Network Programming ◆ Soft Computing ◆ Cyber Security ◆ Network Security ◆ Mobile Security ◆ Cloud Security ◆ Computer Graphics ◆ Net Security
Physics	<ul style="list-style-type: none"> ◆ Theoretical Physics ◆ Experimental Physics ◆ Computational Physics ◆ Condensed matter Physics ◆ Astrophysics
Chemistry	<ul style="list-style-type: none"> ◆ Surface Chemistry ◆ Physical Chemistry ◆ Organic Chemistry ◆ Inorganic Chemistry ◆ Analytical Chemistry ◆ Environmental Chemistry ◆ Computational Chemistry ◆ Atmospheric Chemistry ◆ Material Chemistry
Mathematics	<ul style="list-style-type: none"> ◆ Fluid Dynamics ◆ Optimization ◆ Analysis (Wavelet Analysis, Functional

	<ul style="list-style-type: none"> Analysis, Topology) ◆ Mathematical Ecology ◆ Algebra & Number Theory ◆ Special Function & Fractional Calculus ◆ Statistics
Manufacturing Engineering	<ul style="list-style-type: none"> ◆ Mechatronics ◆ Toyota production system ◆ Supply Chain Management ◆ Production Management ◆ Production and Manufacturing Engineering ◆ Robotics ◆ Automation ◆ CAD / CAM ◆ R.E and R.P with CAD application ◆ Production Engineering ◆ Industrial Engineering ◆ Product Design and Development ◆ Manufacturing Processes ◆ Manufacturing Planning and Control ◆ Manufacturing Management ◆ Manufacturing Excellence / World class Manufacturing ◆ Manufacturing Systems Engineering
Mechanical Engineering	<ul style="list-style-type: none"> ◆ Design Engineering ◆ Energy Systems Engineering ◆ Manufacturing and Industrial Engineering ◆ Thermal and Fluids Engineering
Electrical and Electronics Engineering	<ul style="list-style-type: none"> ◆ Power System Engineering ◆ Power Electronics ◆ Control System Engineering ◆ Instrumentation Engineering ◆ Electrical Machines ◆ Power Engineering Economics
Electronics and Communication Engineering	<ul style="list-style-type: none"> ◆ Communication Systems ◆ VLSI and Embedded Systems Design ◆ Microwave Engineering ◆ Signal Processing
Metallurgical and Materials Engineering	<ul style="list-style-type: none"> ◆ Physical Metallurgy ◆ Process Metallurgy ◆ Foundry Technology ◆ Material Science and Technology ◆ Computer Application in Metallurgy
Humanities, Social Sciences and Management	<ul style="list-style-type: none"> ◆ English: English Language/ English literature / Linguistics/ Communication Studies ◆ Economics: Any Area ◆ Psychology: Any Area ◆ Management: General Management

4. Facilities extended to the faculty members of NIT Jamshedpur

Facilities are extended to faculty members of NIT Jamshedpur as per NIT Act and Statutes as well as decisions of the BOG of the Institute/relevant orders from MHRD, New Delhi.

5. Prescribed minimum Qualification and Experience:

As prescribed in Schedule 'E' of NIT Statutes (Amended 2017) (Ref. Gazette of India No. 651, dated July, 24, 2017), link for the same is available on the website <http://www.nitjsr.ac.in>. In this schedule preceding degrees means:-

For all Engineering Departments: B.Tech. or any equivalent degree / MCA and / or M. Tech. or any equivalent degree, in relevant discipline.

For Humanities / Management / Sciences: B.A. / B.Sc. / B.Com. or any equivalent undergraduate degree and / or M.A. / M.Sc. / M. Com. / M.B.A. or any equivalent P.G. degree, in relevant discipline.

Candidates are required to go through the details of posts and instructions available on the website carefully before applying to ensure their eligibility for the post.

6. Age Limit

Fresh appointment beyond the age of 60 years is discouraged except in the case of faculty with exceptionally brilliant research career and with on-going or approved externally funded research project.

7. Period of Probation: One year.

8. Application Fee:

Each application must be accompanied by non-refundable Application Fee of 1500/- (Rupees One Thousand Five Hundred Only) for UR and OBC applicants. No application fee is required from SC/ST & PWD categories and employees / teachers of NIT Jamshedpur. The Application Fee should be remitted through Demand Draft in *favour of* **Director, NIT Jamshedpur payable at Jamshedpur**. Please write Applicant Name / Post / Department applied for on the back of Demand Draft.

GENERAL INSTRUCTIONS AND INFORMATION

- (a) All recruitment and pay-fixation shall be done by the Board of Governors (BOG) of the Institute only on the recommendations of duly constituted Selection Committees. The Decision of the Appointing Authority shall be final. There shall be no Scope of fixing of altering pay (Pay in pay-band or grade pay) outside the Selection Committee.
- (b) Higher starting pay and / or AGP may be offered to deserving candidates on recommendation of the Selection Committee upon approval of the Board of Governors. Selection Committee may also offer lower faculty position, than the post one has applied for.

- (c) The minimum qualification with regard to academic qualification and experience (on credit basis) for all positions advertised herewith shall be governed by the Schedule 'E' of NITs Statutes (issued vide Gazette of India No. 651, dated July, 24 2017).
- (d) Last date of receiving application is 24th November, 2017 (5.00 P.M). The Institute shall not be responsible under any circumstances for any sort of postal delay.
- (e) **Institute can extend the last date; therefore, candidates are advised to visit the Institute website regularly.**
- (f) The minimum qualification, experience and credit points are the minimum criteria only for deciding the eligibility. This shall not ensure short-listings for Interview / Selections.
- (g) The duly completed application form along with filled in **summary sheet, credit point calculation sheet, credit point detail sheet** and self-attested copies of relevant testimonials, certificates, enclosures and fee etc. is required to be sent by speed/registered post to the **Registrar, National Institute of Technology Jamshedpur, Jamshedpur-831014, Jharkhand, India**, failing which, their candidature will not be considered. The envelope containing the application be super scribed as "APPLICATION FOR THE POST OF ASSISTANT PROFESSOR in the DEPARTMENT OF _____ in the AGP of Rs....."
- (h) Candidates, who wish to apply for more than one post, should apply separately for each post in the prescribed manner and **separate application with fee must be deposited for each post.**
- (i) Applications, which are not in prescribed form / without relevant supporting enclosures and fee, shall be summarily rejected. No correspondence shall be entertained in this regard.
- (j) Candidates shall indicate two references of eminent persons in the field / profession, who may be contacted by the Institute for their recommendations.
- (k) The Institute has the right to set higher norms than minimum and areas of specialization while shortlisting, taking into account the specific requirements of the departments and shall be binding on all the applicants. The short listing norms may not be uniform across the departments/posts of the institute. The decision of the Institute related to all matters pertaining to the recruitment shall be final and binding on the applicants.
- (l) **The date for determining eligibility of candidates in every respect i.e. qualifications, experience and preferred age limit etc. shall be considered as on the closing date, i.e. the last date of the submission of application form.**
- (m) More than six months of experience in relevant regular position in reputed academic institute or R & D labs or relevant industry (As per Schedule – E) will only be considered in total experience.
- (n) The short listed candidates may be required to appear for presentation/seminar in the respective departments, in addition to facing the Selection Committee. **No TA/DA will be paid for attending test / interview.**
- (o) Persons serving in Govt. / Semi Govt. / PSUs / Universities / Educational Institutions should send their applications either THROUGH PROPER CHANNEL or should furnish a NO OBJECTION CERTIFICATE from the Competent Authority of the organization serving, at the time of interview otherwise they may not be allowed for interview. However, they can submit the advance copy of the application form.
- (p) **Age relaxation will be given to SC/ST/OBC/PWD as per Govt. of India norms.**
- (q) **OBC certificate issued by the competent authority on or after 1st April, 2017 shall only be considered for reservation under OBC (Non-Creamy Layer) category.**
- (r) The persons with disability (PWD) shall be required to submit the Disability/Medical Certificate in the prescribed form issued by the competent medical authorities for the purpose of employment as per Government of India norms at the time of

presentation/interview. Persons suffering from not less than 40% of the disability shall only be eligible for the benefit of reservation under this category.

- (s) **Original documents along with one set of self-attested copies will have to be produced at the time of interview for verification.**
- (t) **The applicants are advised/required to visit the Institute website www.nitjsr.ac.in regularly. The list of candidates short listed for further participation in the selection process such as presentation/interview etc. will be displayed on the Institute website. No separate communication/intimation in this regard shall be made by the Institute.**
- (u) Legal disputes, if any, with NIT Jamshedpur will be restricted within the jurisdiction of Hon'ble High Court of Jharkhand, Ranchi only.

DOCUMENTS / CERTIFICATES:

Self attested copies of the following Documents/Certificates are required to be attached along with Application form.

- (a) Matriculation / 10th Standard or equivalent certificate indicating date of birth, or mark sheet of Matriculation / 10th Standard or equivalent issued by Central / State Board indicating date of Birth will be considered in support of their claim of age. Where date of birth is not available in certificate / mark sheets, issued by concerned Educational Boards, School leaving certificate indicating date of birth will be considered.
- (b) Degree/Diploma certificate along with mark sheets pertaining to all the academic years as proof of educational qualification claimed. In the absence of a particular Degree certificate, mark sheets of the Degree program will be accepted.
- (c) NOC and Experience Certificate(s) from the Head(s) of Organization(s) / Department(s) for the entire experience claimed, clearly mentioning the duration of employment (date, month & year) indicating the basic pay and consolidated pay. The certificate(s) should also mention the nature of duties performed/experience obtained in the post(s) with duration(s).
- (d) Caste certificate by candidate seeking reservation as SC/ST/OBC shall be in the prescribed Proforma only from the competent authority indicating clearly the candidate's Caste, the Act/Order, under which, the Caste is recognized as SC/ST/OBC and the village/town the candidate is ordinarily a resident of.
- (e) Physically Handicapped certificate in prescribed Proforma only issued by the competent authority to the Person with Disability for being eligible for appointment to the post on the basis of prescribed standards of Medical Fitness.
- (f) Duly filled in **summary sheet, Credit point calculation sheet and credit point detail sheet** by the applicant are to be submitted along with Application Form.
- (g) ID Proof If any.
- (h) The period of experience rendered by a candidate on part time basis, daily wages, Visiting/Guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.

Registrar

Schedule 'E'

[See Statute 23 (5) (a)]

Qualification and other terms and conditions of appointment of Academic Staff

Sl.No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification	Essential Requirements	Cumulative Essential Credit Points
(1)	(2)	(3)	(4)	(5)
1.	Assistant Professor (on contract) Pay Band-3 with Grade Pay of Rs. 6000	Ph.D.	NIL	NIL
2.	*Assistant Professor (on contract) Pay Band-3 with Grade Pay of Rs.7000	Ph.D.	one year post Ph.D. experience of Teaching and Research in Institution of repute or Industry	10
3.	Assistant Professor Pay Band-3 with Grade Pay of Rs.8000 with a minimum pay of Rs. 30000	Ph.D.	three year after Ph.D. or six year total teaching and research experience in reputed academic Institute or Research and Development Labs or relevant industry.	20
* A Regular Assistant Professor with AGP of Rs. 6,000/-, if selected to the Assistant Professor with AGP Rs. 7,000/- shall be designated as Assistant Professor without depending on "Contract".				

Note:

- (1) Any change in the grade pay will be through open advertisement and on recommendation of duly constituted selection committee, except where specifically exempted in these rules.
- (2) All new entrants shall have Ph.D. in the relevant or equivalent discipline and shall have first class in the preceding degrees.
- (3) For existing faculty members, who completed their Ph.D. along-with their normal teaching load in the Institute or quality improvement programme, the enrolment period of Ph.D. will be counted as teaching experience.
- (4) Contribution to Institute Administration shall be recommended by concerned Head or Chairman and approved by the Director. Contribution to departmental Administration shall be recommended by concerned Head and approved by the Director.
- (5) For the departments which are not having any vacancy, movement in higher Academic Grade Pay or cadre shall be carried out as per specified selection process but it will be restricted to only for serving faculty members of the respective departments.

(6) The permanent faculty members who have put in more than ten years experience, but have not acquired Ph.D. qualification as on the date of these notification shall be mapped into four-tier flexible system as one time measure as per following norms:

(a) Permanent faculty with age fifty or above:

The Assistant Professors with Academic Grade Pay of Rs. 7000 shall be mapped at the level of Assistant Professor with Academic Grade Pay of Rs. 8000 provided they have at least 10 credit points in their lifetime.

Provided they have been found suitable through a Selection Committee duly constituted under the Statues.

Credit Point System

The following shall be the credit point system

Sl No.	Activity	Credits Points
1.	One external Sponsored Research and Development Projects completed or ongoing or Patent granted	8 credit points per project or 8 credit points per patent as inventor (in case of more than one person in a Project, the Principal Investigator gets 5 credit points and the rest to be divided equally among other members)
2.	Consultancy Projects	2 credit points @ Rs. 5 lakhs of consultancy, subject to maximum of 10 credit points.
3.	Ph.D. completed (including thesis submitted cases)	8 credit points per Ph.D. student (in case there are more than one supervisor, then the Guide (1 st Supervisor) gets 5 credit points per student and the rest to be divided equally among other supervisor
4.	One Journal papers in Science Citation Index or Scopus (Paid Journals not allowed)	4 point per paper since the last promotion First author or Main supervisor will get 2 point and rest will be divided among others.
5.	One Conference paper indexed in Science Citation Index or Scopus or Web of science Conference or any internationally renowned conference	1 credit points per paper up to a maximum of 10 credit points. First author or Main Supervisor will get 0.6 and rest will be divided among the rest.
6.	Head of the Department, Dean, Chief Warden, Professor Incharge (Training and Placement), Advisor (Estate), Chief vigilance Officer, PI (Exam), TEQIP (Coordinator)	2 points per semester up to a max of 16 credits points since the last promotion.
7.	Warden, Assistant Wardens, Associate Dean, Chairman or Convener Institute Academic Committees, Faculty in charge Computer Center or Information and Technology Services of Library or Admission or student activities and other Institutional Activities	1 credit point per semester up to a maximum of 8 credits points since the last promotion
8.	Chairman and Convener of different standing committee and special committee (Ex officio status will not	0.5 credit point per Semesters up to a maximum of 3 credits points since the last promotion

	be considered). Faculty incharges (Each for one year duration) of different Units or equivalent	
9.	Departmental Activities indentified by Head of the Department like lab in charges, or department level committee for a minimum period of one year.	0.5 credit point per Semesters up to a maximum of 3 credits points since the last promotion
10.	Workshop or Faculty Development Program or short term courses of min 05 working days duration offered as coordinator or convener	2 credit points per course up to a maximum of 8 credit points since the last promotion
11.	For conducting national programs like Global Initiative of Academic Networks etc. as course coordinator Program of two weeks duration Program of one week duration	2 credit points per course up to a maximum of 4 credit points since the last promotion 1 credit point per course up to a maximum of 2 credit points since the last promotion
12.	National or International conference organized as Chairman or Secretary	3 credit points per program up a maximum of 6 credits points since the last promotion
13.	Length of service over and above the relevant minimum teaching experience required for a even cadre	2 credit points per semester with maximum of 10 credit points since the last promotion
14.	Establishment of New Lab(s)	4 credit points since the last promotion
15.	Theory Teaching of over and above 6 credit hrs. course	1 credit point or credit hrs. up to a maximum of 6 credit points since the last promotion
16.	Post Graduate Dissertation guided	0.5 credit point per project to a maximum of 10 points since the last promotion
17.	Under Graduate Projects	0.25 credit point per project to a maximum of 4 points since the last promotion
18.	Text or Reference Books published on relevant subjects from reputed international publishers	6 credit points per book up to a maximum of 18 points since the last promotion
19.	Text or reference book published on relevant subjects from reputed national publishers or book chapters in the books published by reputed international publishers	2 credit points per unit up to a maximum of 6 points since the last promotion
20.	Significant outreach Institute out activities	1 credit point per activity up to a maximum of 4 credit points since the last promotion
21.	Fellow IEEE, FNA, FNAE, FNASc	10 credit points
22.	Placement percentage (only for the placement cell officers / for Faculty incharge of Placement)	
	Above 85%	4 credit points per year upto a maximum of 20 points since the last promotion
	75%-84% (% to be based on total number of students passing out and single job offer)	2 credit points per year upto a maximum of 10 points since the last promotion