



## NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA – 769 008

### SPECIAL RECRUITMENT DRIVE FOR FACULTY POSITION

Advertisement No.: [NITR/ES/01/2015](#)

NIT, Rourkela, an institute of national importance under Ministry of Human Resource Development, Government of India invites applications from Indian nationals possessing excellent academic background along-with commitment to quality teaching and research for faculty positions at the level of **Assistant Professor** in most branches of Engineering, Science, Management and Humanities as per following table:

Sl. No.	Name of the Post	Pay Scale	Vacancy	Age preferably below
1	Assistant Professor (on Pre-Ph.D. Contract)	PB-3 ( `15,600 – `39,100) AGP: `6,000	SC – 12 ST – 11 OBC – 33 PWD – 07	30
2	Assistant Professor (on Contract)	PB-3 ( `15,600 – `39,100) AGP: `6,000		35
3	Assistant Professor	PB-3 ( `15,600 – `39,100) Minimum Pay in Pay-band `30,000 AGP: `8,000		40

#### **Educational Qualification & Experience:**

Detailed Educational Qualification & Experience are in given in **Annexure – I**.

#### **Reservation and Relaxations:**

Reservations and relaxations to the candidates belonging to the Scheduled Castes, Scheduled Tribes, Other Backward Classes, Ex-Serviceman and other special categories are applicable as per Government of India norms.

#### **Academic Compensations and Incentives:**

In addition to normal pay and allowances as applicable to the central government employees stationed at Rourkela, following additional incentives are also available to the faculty members:

- Full funding for attending national/international conference either for presenting a paper or chairing session as per Institute guidelines membership of professional societies and purchase of books under Professional Development Allowance (PDA), limited to `3.00 lakhs in 3 years for all taken together.
- Reimbursement of telephone charges up to `500.00 per month.
- Reimbursement of **relocation charges** from within India to join the institute.
- Attractive medical facility including referral to outside specialized and reputed hospitals.
- Accommodation:** Suitable residential accommodation as per rules subject to availability will be provided in the Institute Campus. HRA may be paid in lieu of residential accommodation.

**Important Notes:**

- a) As an institute of national importance, NITR strives to have a workforce which reflects an all-India character and hence candidates from all over the country are encouraged to apply.
- b) NITR strives to have a workforce which also reflects gender balance and hence women candidates are especially encouraged to apply.
- c) No person, (i) who had entered into or contracted a marriage with a person having a spouse living; or (ii) who having a spouse living, has entered into or contracted a marriage with any person, shall be eligible for appointment to the said post; provided that the Board of Governors may, if satisfied that such marriage is permissible under the personal law applicable to such a person and the other party to the marriage and that there were other grounds for so doing, exempt any person from the operation of this rule.
- d) Fresh appointments beyond the age of 60 years is discouraged except in the case of faculty with exceptionally brilliant research (particularly industrial research involving a strong record of patents) career and with ongoing or approved externally funded research projects.
- e) There shall be no distinction between external and internal candidates with regard to the requirements of qualification and experience except that there shall be no age bar nor specialization constraint on existing faculty applying for a higher post.
- f) Minimum requirement of experience may be relaxed for otherwise outstanding candidates.
- g) Mere fulfilment of minimum qualification and experience requirements does not entitle any candidate for a call for interview. A short listing criterion may be set higher than the minimum advertised.
- h) The Institute reserves the right to place a reasonable limit on the total number of candidates to be called for test and/or interview. Mere fulfilment of qualification per se does not entitle a candidate to be called for test and/or interview.
- i) The Institute reserves the right to call all the eligible candidates or short listed candidates for interview after screening by the Institute. The Institute also reserves the right to defer or cancel the selection process without assigning any reason thereof. The decision of the Institute in this regard will be final and binding on all the applicants who respond to this advertisement. No interim communication on the status of application will be entertained.
- j) Depending on perceived availability of qualified candidates, different departments may set different short listing criteria.
- k) Apart from merit, the specialization of a candidate within a department will play a vital role in selection. Candidate with specialization in greater need by the department will be given preference. Candidates with studentship or work experience in reputed Universities, Institutions or Industry or with greater relevance to the academic programmes of the department will be given preference. The Institute's decision on reputation of other Universities/Institute will be binding.
- l) Experienced and/or meritorious candidates may be granted higher starting pay on recommendation of selection committees.
- m) For the same achievement in terms of research record, younger candidates will be given preference.
- n) Candidates possessing qualifying degrees in branches other than the one being mentioned in the advertisement but possessing superior academic record, appropriate course background and relevant research experience will be considered on merit.
- o) Candidates in an advanced stage of Ph.D. in any Institute are encouraged to apply. If selected, the candidate may be given time up to one year to complete Ph.D. and join NITR or complete the programme (Ph.D.) after joining NIT, Rourkela. This will be considered on case to case basis.

- p) Candidates who are unable to attend the interview for being abroad or for any other reason can be permitted to attend the interview on their request through video conferencing on case to case basis.
- q) Candidates pursuing Ph.D. need to enclose a reference letter from thesis supervisor indicating status of his/her project and expected time required for completion of research work.
- r) No correspondence, what-so-ever, will be entertained from the candidates regarding, conduct and result of interview and reasons for not being called for interview or selection.
- s) Canvassing in any form will lead to rejection of application form.
- t) Persons employed in Government/Semi Government Organizations / Autonomous Bodies should submit their applications through proper channel. Alternatively, they may send an advance copy of the application and may submit the NOC at the time of interview.
- u) The Institute reserves the right to offer a lower post and/or AGP than that applied for by any candidate based on recommendation of the Selection Committee.
- v) In order to attract bright candidates and enhance competition, the institute reserves the right to publicize the vacancies through letters, email and telephone and other media sent to selected institutes, organizations and individuals in addition to the basic mode of advertising on the institute website and/or newspapers.
- w) Applications received before the published closing date will be considered for scrutiny and selection. Applications received after the closing date may still be considered at the discretion of the institute depending on. In such cases, all applications received till revised closing date will be considered. The revised closing date if any may be different for different departments and posts.

**How to Apply:**

- a) Candidates willing to apply for one or more posts are requested to apply online at [http://nitrkl.ac.in/Jobs\\_Tenders/1FacultyPosition/Default.aspx](http://nitrkl.ac.in/Jobs_Tenders/1FacultyPosition/Default.aspx)
- b) The online application can be filled in multiple sessions.
- c) Applications shall be received online only. No application or CV should be sent against this advertisement by email or letter mail.
- d) Persons employed in Government and Semi-Government organizations may apply directly against the advertisement. For this the application should be completed online. The print-out of the application generated online should be submitted through employer if shortlisted for interview.
- e) Candidates are required to check the Institute website from time to time for latest information, application status, call for interview, change of dates and final results.

**Important Dates:**

- a) Opening of Online Application gateway – 10/10/2015 (Saturday)
- b) Closing of Online Application gateway – 31/10/2015 (Saturday)

Please visit [http://nitrkl.ac.in/Jobs\\_Tenders/1FacultyPosition/Default.aspx](http://nitrkl.ac.in/Jobs_Tenders/1FacultyPosition/Default.aspx) regularly for further updates.

**Annexure – I**

**QUALIFICATION & PAY SCALES UNDER 4-TIER FLEXIBLE FACULTY STRUCTURE**

Sl. No.	Name of the Post	Pay Scale	Basic Educational Qualification & Experience	Additional Academic/Research Requirement	Remarks
1	Assistant Professor (on Pre-Ph.D. Contract) (For candidates pursuing Ph.D. and expecting submission within a year)	Pay Band – PB/3 (`15,600 – `39,100) AGP: `6,000	i. Qualification – Post Graduate from a reputed Institute/University in one of the appropriate branch with specialization as mentioned in <b>Annexure – II</b> with good academic record throughout. ii. Experience – Not Applicable	Not Applicable	i. Assistant Professors to be recruited on contractual basis are not part of the regular faculty cadre in NITs. Appointment at this level may be made on contract basis to enable bright young Ph.D. scholars to teach and earn experience in premier institutions.
2	Assistant Professor (on Contract)	Pay Band – PB/3 (`15,600 – `39,100) Pay in PB – `22,240 AGP: `6,000	i. Qualification – Ph.D. from a reputed Institute/University in one of the appropriate branch with specialization as mentioned in <b>Annexure – II</b> with good academic record throughout. ii. Experience – Not Applicable	One publication in an SCI Journal	ii. To encourage fresh Ph.Ds. to join the teaching system, at least 10% of the total faculty strength may be recruited at this (AGP – `6,000) level.
3	Assistant Professor	Pay Band – PB/3 (`15,600 – `39,100) Minimum Pay in PB – `30,000 AGP: `8,000	i. Qualification – Ph.D. from a reputed Institute/University in one of the appropriate branch with specialization as mentioned in <b>Annexure – II</b> with good academic record throughout. ii. Experience – At least 3 years industrial / research / teaching experience excluding however, the experience gained while pursuing Ph.D. or 6 years total (not counting Ph.D. enrolment period) after obtaining Post Graduate degree.	Two publication in SCI journal or one patent (may be based on Ph.D. work)	iii. Relaxation in respect of educational qualifications may be given up to 25% of total Assistant Professors recruited.

## Annexure – II

### APPROPRIATE BRANCH

The following points provide some exceptions or clarifications to “appropriate branch”

- a) **Computer Science & Engineering:** B. Tech. in Computer Science followed by M. Tech. and/or Ph.D. or B. Tech. in Electronics / Electrical Engineering followed by Ph.D. in Computer Science. Candidates with other backgrounds and Ph.D. in Computer Science may be considered on the basis of the subjects studied. Ph.D. topic and post Ph.D. experience.
- b) **Electronics & Communication Engineering:** Candidates having B. Tech. in Electronics Engineering / Communication Engineering / Instrumentation Engineering / Electrical Engineering or any combination of these disciplines will be considered. Candidates’ M. Tech. and Ph.D. work should match any of the research activities of the department.
- c) **Humanities & Social Sciences:** Post Graduate degree in Economics / Psychology / Sociology / Anthropology / English / Hindi / Odia / Sanskrit / Education.
- d) **Biotechnology:** Ph.D. in Biotechnology with B. Tech. in any branch of Engineering. Candidates with M.Sc. degree in Biotechnology followed by M. Tech. and Ph.D. in Biotechnology will be considered on the basis of subjects studied at M.Sc. and M. Tech. level, Ph.D. research topic (relevance to industry) and post Ph.D. experience.
- e) **Medical Engineering:** Ph.D. or M. Tech. in Biomedical Engineering, Electronics Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering, Materials Engineering, Instrumentation Engineering, or Chemical Engineering or B. Tech. in any branch of engineering with Ph.D. and post Ph.D. work in the area of Medical Engineering. B. Tech., M. Tech., Ph.D. in any branch(es) of Engineering with research focus on Medical Engineering; candidates possessing degrees in Biomedical Engineering, Electronics, Instrumentation, Chemical Engineering, Mechanical Engineering and Biotechnology will be given preference.

#### **Specialization:**

Following is the list of academic groups in each department. Vacancy exists in almost all fields.

- a) **Biotechnology & Medical Engineering:** (i) Cell and Molecular Engineering; (ii) Bioprocess Engineering; (iii) Environmental & Plant Biotechnology; (iv) Biomechanics & Bio transport Engineering; (v) Tissue Engineering and Biomaterials; (vi) Medical Electronics and Instrumentation.
- b) **Ceramic Engineering:** (i) Structural & Advanced Ceramics; (ii) Nano and Bio-ceramics Group; (iii) Electro Ceramics; (iv) Industrial Ceramics.
- c) **Chemical Engineering:** (i) Modelling, Simulation & Control; (ii) Material Research; (iii) Separation & Purification; (iv) Energy and Environmental Engineering; (v) Transport Processes.
- d) **Chemistry:** (i) Organic Chemistry; (ii) Physical and Computational Chemistry.
- e) **Civil Engineering:** (i) Structural Mechanics; (ii) Earthquake Structural Engineering; (iii) Concrete Materials & Structural Integrity; (iv) Transportation Engineering; (v) Geotechnical Engineering; (vi) Water Resource Engineering; (vii) Environmental Engineering.
- f) **Computer Science & Engineering:** (i) Software Engineering; (ii) Network and Secured Computing; (iii) Intelligent Computing and Computer Vision; (iv) Communication and Computing.

- g) **Electrical Engineering:** (i) Power Electronics & Drives; (ii) Power System; (iii) Control & Automation; (iv) Electronics System & Communication.
- h) **Electronics & Communication Engineering:** (i) Communication; (ii) VLSI & Embedded Systems; (iii) Signal Processing; (iv) Instrumentation.
- i) **Humanities & Social Sciences:** (i) Language and Literature; (ii) Applied Economics and Development; (iii) Behavioural and Allied Sciences; (iv) Socio-Anthropological.
- j) **Industrial Design:** (i) Product Modelling, Design and Analysis; (ii) Innovative Product Design; (iii) Rapid Product Development and Reverse Engineering; (iv) Industrial Automation.
- k) **Life Sciences:** (i) Biochemistry and Molecular Biology; (ii) Cell and Developmental Biology; (iii) Immunology and Molecular Medicine; (iv) Microbiology and Ecology; (v) Bioinformatics Group; (vi) Biophysical Sciences.
- l) **Mathematics:** (i) Analysis, Algebra and Topology; (ii) Statistics and Optimization and Discrete; (iii) Applied Mathematics.
- m) **Mechanical Engineering:** (i) Refrigeration and Cryogenics; (ii) Fluid Flow and Heat Transfer; (iii) Robotics and Mechatronics; (iv) Machine Dynamics and Vibration; (v) Manufacturing Science; (vi) Industrial Engineering; (vii) Composite Materials and Surface Engineering.
- n) **Metallurgical & Materials Engineering:** (i) Physical Metallurgy; (ii) Mechanical Metallurgy; (iii) Process Metallurgy; (iv) Computational Metallurgy; (v) Composites Materials; (vi) Thin Film and Surface Coating.
- o) **Mining Engineering:** (i) Mine Environment; (ii) Geomechanics.
- p) **Physics & Astronomy:** (i) Condensed matter theory; (ii) Low temperature physics; (iii) Functional materials; (iv) Atomic and molecular physics; (v) Optics and Laser Physics; (vi) Astronomy and Astrophysics.
- q) **Planning & Architecture:** Architecture.
- r) **School of Management:** (i) Human Resource; (ii) Marketing; (iii) Operations; (iv) Systems; (v) Decision Science; (vi) General Management.
- s) **Food Process Engineering:** (i) Post Harvest Operations; (ii) Food Quality Control and Safety; (iii) Food Process, Modelling and Simulation; (iv) Product Development and Ingredients Innovation.
- t) **Earth & Atmospheric Science:** (i) Applied Geology; (ii) Atmospheric Sciences.

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