



**National Institute of Technology, Rourkela
Odisha-769008**

Sub: Supplement to Advertisement (Advt. No – NITR/ 02/2014) for Faculty Position

- 1) Last date for submitting application is extended till **30th November, 2014.**
- 2) Recruitment to faculty position will be governed by MHRD guideline vide order no: F.No.33-9 /2011 – TS.III dt 15 January 2014. **(The copy of the ministry recommendation is available in the website: http://www.nitrkl.ac.in/Jobs_Tenders/1FacultyPosition/Default.aspx)**
- 3) Qualification norms as provided in Annexure-I earlier is modified and enclosed here. The old Annexure is removed.
- 4) Selection procedure consists of following steps:
 - a) Short-listing at respective departments followed by shortlisting by Advisory Committee for Faculty Recruitment (ACoFAR).
 - b) Seminar presentation and discussion at the department in presence of faculty members and experts (if present).
 - c) Personal Interview by constituted Selection Committee.
The events listed at (b) and (c) above will be held on consecutive days.
- 5) Clarification regarding excellent academic background :
Following minimum criteria are applicable for excellent academic background:-
 - a) The average of the percentage of marks scored at 10th and 12th class levels should be greater than 60%.
 - b) 60% or equivalent grade in all subsequent examinations such as B.A. / B.Sc. /; M.A. / M.Sc. / M.B.A.; B. Tech.; M. Tech. etc.

Following exception is applicable:

Candidates securing between 50% to 60% marks in B, Sc./ B.A./ B.Com. only can be considered if they have secured more than 70% in all other examinations starting from class 10th examination.

- 6) Following specialization may be considered in addition to what was published in original advertisement:
 - a) Department of Physics and Astronomy: Computational Physics
 - b) Department of Chemistry: Computation Chemistry
 - c) Department of Mathematics: Computational Mathematics, Statistics
 - d) Bio-medical Engineering: Electronics Engineering and Mechanical Engineering at B. Tech. or equivalent with Bio-medical Engineering specialization at higher level.
 - e) Computer Sc. & Engg. Department: Specialization in (i)Big Data Analytics for Competitive Advantage; (ii)Business intelligence and Analytics; (iii)Visual Analytics; (iv)Consumer Analytics; (v)Complex Adaptive Systems; (vi)Information visualization; (vii)Knowledge based Systems; (viii)Cloud Computing for Data Analysis
- 7) Additional qualification norms for faculty position (exceptions to the considered):

- a. As an eligibility criteria for the post of Professor, the requirement of minimum four years' experience at the level of associate Professor shall mean that of Associate professor in Four-Tier System i.e. at the AGP of ₹9,500/-. Associate professor of three tier system with academic Grade Pay of ₹9,000/- shall also be eligible but with seven years' experience at AGP of ₹9,000/- level, if they meet the relevant academic requirements for the post.
- b. Professors qualified for ₹10,500/- AGP will only be considered for HAG Scale. The concerned Professor has to have 6 (six) years of service in AGP of ₹10,000/- or higher.

(Prof. S. K. Patra)
Dean (FW)



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला
NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

ADVERTISEMENT FOR FACULTY POSITION

Advt. No. – NITR/02/2014

(Corrections to the original advertisement has been highlighted)

NIT, Rourkela, an institute of national importance under Ministry of HRD, Govt. 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 **Professor, Associate Professor and 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	Asst. Professor (on Contract)	PB – 3(15,600 – 39,100) AGP – 6,000/-	Total – 95	35
2	Asst. Professor	PB – 3(15,600 – 39,100) Minimum Pay in Pay-band 30,000 AGP – 8,000/-		40
3	Associate Professor	PB – 4(37,400 – 67,000) Minimum Pay in Pay-band 42,800 AGP – 9,500/-		45
4	Professor	PB – 4(37,400 – 67,000) Minimum Pay in Pay-band 48,000 AGP – 10,500/-		50

* Distribution of vacancy among Professor, Associate Professor and Assistant Professor is flexible.

Educational Qualification & Experience:-

Detailed Educational Qualification & Experience are given in [Annexure – I](#).

Reservations 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 Govt. of India Norms.

Academic compensations and Incentives:

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

- a. 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 Rs.3.00laks in 3 years for all taken together.
- b. Reimbursement of telephone charges up to Rs.500/- per month.
- c. Reimbursement of **relocation charges** from within India to join the institute.
- d. Attractive Medical facility including referral to outside specialized and reputed hospitals.
- e. **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 specialisation 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. Depending on perceived availability of qualified candidates, different departments may set different short listing criteria.
- i. 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.
- j. Experienced and/or meritorious candidates may be granted higher starting pay on recommendation of selection committees.
- k. For the same achievement in terms of research record, younger candidates will be given preference.
- l. Candidates possessing qualifying degrees in branches other than the one being approved for but possessing superior academic record, appropriate course background and relevant research experience will be considered on merit.
- m. Candidate without Ph.D. degree will be required to enrol in the Institute's Ph.D. programme while taking a reduced teaching load.
- n. 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.
- o. Candidates who are unable to attend the interview for being abroad or for any other reason can be permitted to attend the interview through video conferencing on case to case basis.
 - p. Students pursuing Ph.D. will need to enclose a reference letter from thesis supervisor indicating status of his/her project and expected time required for completion of research work.
 - q. No correspondence whatsoever will be entertained from the candidates regarding, conduct and result of interview and reasons for not being called for interview or selection.
 - r. Canvassing in any form will lead to rejection of application form.
 - s. If suitable candidates are not available for positions of Professor or Associate Professor, the positions may, at the discretion of the Board, be utilized for recruiting faculty in lower positions.
 - t. 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.
 - u. The Institute reserves the right to call for interview all the eligible candidates or short listed candidates 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.
 - v. 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.
 - w. The Institute reserves the right to offer a lower post including entry level post of the cadre to any candidate if sufficiently qualified and experienced candidates with commensurate performance in trade test and interview are not available at higher GP/AGP.
 - x. In order to attract bright candidates and enhance competition, the institute reserves the right to publicise the vacancies through letters, email and telephone and other media sent to selected institutes, organisations and individuals in addition to the basic mode of advertising on the institute website and/or newspapers.
 - y. 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 number of quality of applications received within due date. 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://www.nitrkl.ac.in/ JOBS & TENDERS /Faculty Position .](http://www.nitrkl.ac.in/JOBS & TENDERS /Faculty Position .)"
- b. Persons employed in Government and Semi-Government organizations may apply directly against the standing advertisement. For this the application should be completed online. The printout of the application generated online should be submitted through employer if shortlisted for interview.
- c. The online application can be filled in multiple sessions.
- d. 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.
- e. Applications shall be received online only. Please do not send application or CV against this advertisement by email or letter mail

Prescribed Minimum Qualification and experience for
Faculty Positions of **NATIONAL INSTITUTE OF TECHNOLOGY**
(As per MHRD guideline F.No.33-9/2011-TS.III dated the 15th January, 2014)

(Under four tier flexible faculty structure)

Sl. No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification	Relevant Experience	Other essential requirements	Additional Desirable requirements
1	Assistant Professor* (On Contract) PB-3 with Grade Pay of ₹6000/- + 07 additional Non-compounded Increments.	Ph. D.	None	None	One publication in SCI Journal
2	Assistant Professor (On Contract) PB-3 with Grade Pay of ₹7000/-	Ph. D.	01 year.	One paper accepted for publication in SCI Journal.	Two papers in SCI Journals or one patent , may be based on Ph. D. Work
3	Assistant Professor PB-3 with Grade Pay of ₹8000/-	Ph. D.	03 years after Ph. D. or 06 years total (not counting Ph. D. enrolment period) after obtaining M. Tech. Degree	02 papers in SCI journal outside Ph. D. work. One ongoing sponsored project for candidates from academia. Two experiments or computational projects added to teaching laboratories where appropriate.	One Ph. D. supervision ongoing; 01 patent; Experience in industry or R&D lab. of repute; M. Tech., M.Sc. or B. Tech. project supervision on live industrial problems.
4	Associate Professor PB-4 with Grade Pay of ₹9500/-	Ph. D.	06 years after Ph. D. or 09 years total (not counting Ph. D. enrolment period), out of which 03 years should be after Ph. D. Three years at the level of assistant Professor with AGP of ₹8000/- or equivalent in a reputed university, R & D Lab. or relevant industry.	04 papers in SCI journal after Ph. D. One Ph. D. guided as sole or principal supervisor plus one continuing. Two projects ongoing or one project ongoing plus one completed. Two experiments or computational projects added to teaching laboratories where appropriate. Academic outreach activity equivalent to two self-financed short term courses.	01 or more patents; Supervising two or more students for Ph. D.; Strong liaison with industry; Offering course through application of ICT.
5	Professor PB-4 with Grade Pay of ₹10,500/-	Ph. D.	10 years after Ph. D. or 13years total (not counting Ph. D. enrolment period), out of which 07 years are to be after Ph. D. At least three years to be at the Associate Professor level in an	Two Ph. D. guided as sole or principal supervisor. The following during the past 04 years; (i) 03 papers in SCI journals; (2) One High value sponsored or consultancy project; (iii) Academic outreach activity equivalent to two self-financed course offered as coordinator and main teacher; (iv) Two experiments or	One or more Patents; Supervised more than three students for Ph. D.; Preparing E-Learning materials. At least one self-financed short-term course offered every year. Strong liaison with industry;

Faculty Designation and scale of pay under 4Tier flexible structure

			institution of repute.	computational design projects with added to teaching laboratories where appropriate.	Offering significant support to institute management; High value sponsored or consultancy projects.
6	Professor HAG Scale ₹67,000 - ₹79,000	Ph. D.	Six years as Professor with AGP ₹10,000/- or ₹10,500/- in an institute of national importance.	04 Ph. D. guided as sole or principal supervisor plus at least one full time resident student continuing. The following during the past six years (i) 04 papers in SCI journals; (2) 02 high value sponsored or consultancy project plus one on-going; (iii) academic outreach activity equivalent to 03 self-financed short-term courses offered as coordinator and main teacher; (iv) Three experiments or computational projects added to teaching laboratories; (v) Significant contribution to institute management through personal initiative in responsible positions.	Truly significant contribution in one area – publications, writing text books or reference books, sponsored projects, consultancy and support to industry, E-learning packages, creative contribution to institute's welfare.

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*Additional note w.r.t. Assistant Prof (AGP 6000) on contract

1. Persons pursuing Ph.D. in reputed institutions on full time basis may also apply, if they expect to submit thesis within one year of this advertisement. Such candidate will be put on a pre-Ph. D. contract till such time they obtain a Ph.D. degree. The formal 3 year contract period (AGP ₹6000/- with 7 increments) will start after obtaining Ph. D. degree.
2. Candidates with M.Tech (Mininig Engg)/ M.Arch/ M. Plan (with B. Arch) will be considered for pre-Ph.D. contracts. Such candidates will be required to enroll in Ph.D. programme. On completion of Ph.D. they will be eligible to apply for the post of Assistant Professor (post Ph.D. contracts with AGP ₹6000/- + 7 increments).

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 back grounds 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 PhD 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: PhD in Biotechnology with B. Tech. in any branch of engineering. Candidates with M.Sc. degree in Biotechnology followed by M. Tech. and PhD in Biotechnology will be considered on the basis of subjects studied at M. Sc. and M. Tech. level, PhD research topic (relevance to industry) and post PhD experience.
- e. Medical Engineering: PhD 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 PhD and post PhD 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 exist in almost all field.)

Biotechnology & Medical Engineering: i) Cell and Molecular Engineering; ii) Bioprocess Engineering; iii) Environmental & Plant Biotechnology; iv) Biomechanics & Biotransport Engineering v)Tissue Engineering and Biomaterials; vi) Medical Electronics and Instrumentation

Ceramic Engineering: i) Structural & Advanced Ceramics ii) Nano and Bio-ceramics Group iii) Electro ceramics iv) Industrial Ceramics;

Chemical Engineering: i)Modelling, Simulation & Control ii)Material Research iii)Separation & Purification iv)Energy and Environmental Engineering v)Transport Processes

Chemistry:- i)Organic Chemistry, ii)Physical and computational Chemistry

Civil Engineering Groups:- 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

Computer Science & Engineering:- i)Software Engg.; ii)Network and Secured Computing iii)Intelligent Computing and Computer Vision; iv)Communication and computing

Electrical Engineering:- i)Power Electronics & Drives; ii)Power System; iii)Control & Automation; iv)Electronics System & Communication

Electronics & Communication Engineering: i) Communication; ii)VLSI & Embedded Systems; iii)Signal Processing; iv)Instrumentation

Humanities & Social Sciences: i) Language and Literature; ii)Applied Economics and Development; iii)Behavioural and Allied Sciences; (iv)Socio - Anthropological

Industrial Design: i)Product Modelling , Design and Analysis ii)Innovative Product Design iii)Rapid Product Development and Reverse Engineering iv)Industrial Automation

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

Mathematics: i) Analysis, Algebra and Topology; ii) Statistics and Optimization and Discrete iii)Applied Mathematics

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

Metallurgical & Materials Engineering: i)Physical Metallurgy; ii)Mechanical Metallurgy; iii)Process Metallurgy; iv)Computational Metallurgy ; v)Composites Materials; vi)Thin Film and Surface Coating

Mining Engineering: i) Mine Environment ii) Geomechanics

Physics: (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

Planning & Architecture: Architecture

School of Management: (i)Human Resource; ii)Marketing; iii)Operations; iv)Systems; v)Decision Science; vi)General Management;

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

Earth and Atmospheric Science: i) Applied Geology ii)Atmospheric Sciences