



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

Addendum to our Avt. No. - 02/2013 Dt. 21.03.2013 for Recruitment of Faculty Position

Changes have been incorporated to our Advertisement No.02/2013 dated 21.03.2013 in following qualification, relevant experience and other essential requirements and desirable experience clause:

- a) **Asst. Professor (AGP-7000)**
Relevant experience: None
Other essential requirement: One paper accepted for publication in SCI journal.
Desirable requirement: Two papers in SCI journal papers or one patent (May be based on PhD work)
- b) **Asst. Professor (AGP-8000)**
Relevant experience: 3 years after Ph.D. or 6 years total (not counting Ph.D. enrolment period) after obtaining M. Tech. degree.
Other essential requirement:
- 2 papers in SCI journals outside Ph. D. work.
 - One ongoing sponsored project for candidates from academia.
 - Two experimental or computational projects added to teaching laboratories where appropriate.
- Desirable requirement:*
- One Ph. D. supervision ongoing;
 - One Patent;
 - Experience in industry or R & D lab. of repute;
 - M. Tech., M. Sc. or B. Tech. project supervision on live industrial problems.
- c) **Associate Professor (AGP-9000)**
Relevant experience: 6 years after Ph.D. or 9 years total (not including PhD enrolment period) out of which 3years should be after PhD as Assistant Professor or equivalent in a reputed university, R & D Lab. or relevant industry.
Other essential requirement:
- 4 papers in SCI journals;
 - One Ph. D. guided as sole or principal supervisor.
 - Two projects ongoing or one ongoing plus one completed.
 - One self-financed or two Govt. sponsored short-term courses offered.
 - Two experiments or computational projects added to teaching laboratories where appropriate.
- Desirable requirement:*
- One or more patents;
 - Supervising one or more students for Ph. D.;
 - Strong liaison with industry;
 - Offering courses through application of ICT.
- d) **Professor**
Relevant experience: 10 years after PhD or 13years (not counting PhD enrolment period). Total out of which 7 years to be after PhD including 3years as Associate Professor
Other essential requirement:
- Two PhDs guided in career as sole or principal supervisor, plus one ongoing.
 - The following during the past 4 years:
 - Three papers in SCI journals
 - One high value sponsored or consultancy project

- Two self-financed or four Govt. sponsored short-term courses as coordinator and main teacher
- Two experiments or computational design projects added to teaching laboratories where appropriate

Desirable requirement:

- **One or more Patents;**
- Supervised more than three students for Ph. D.;
- Preparing E-Learning material.
- At least one self-financed short-term course offered every year.
- Strong liaison with industry.
- Offering significant support to institute management;
- High value sponsored or consultancy projects.

Last date for submitting online application: 15 May, 2013



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

Advt. No. - 02/2013 Dt. 21.03.2013

ADVERTISEMENT FOR RECRUITMENT FOR FACULTY POSITION

NIT, Rourkela invites applications from Indian nationals for faculty position from candidates possessing excellent academic background along with commitment to quality teaching and potential for carrying out relevant research at the level of Assistant Professor. The details provided here are as per 3tier rigid faculty structure.

POST/ DESIGNATION, Pay Band and Academic Grade Pay	QUALIFICATION	AGE LIMIT	NO. OF POSTS (Provisional)
Assistant Professor (On contract) Grade Pay –Rs.6000 PB3+ 2 increments	M Tech degree with 1st class (60%) or equivalent grade (6.5/10) at both B.Tech and M.Tech in appropriate branch. (Refer to exceptions at bottom of table)	30yrs (Relaxation of 5years for SC, ST and 3years for OBC)	
Assistant Professor Grade Pay – Rs.7000; PB3	Ph.D degree with 1st class (60%) or equivalent grade (6.5/10) at both B.Tech/ M.Sc./ M.A/ MBA and M. Tech level in appropriate branches	35yrs (Relaxation of by 5years for SC, ST and 3years for OBC)	SC - 10 ST - 6 OBC – 18 Gen - 21
Assistant Professor Grade Pay – Rs.8000; PB3	Ph.D degree with 1st class (60%) or equivalent grade (6.5/10) at both B.Tech/ M.Sc./ M.A/ MBA and M. Tech level in appropriate branches.	NA	
Associate Professor PB-4 AGP-9000	Ph.D degree with 1st class (60%) or equivalent grade (6.5/10) at both B.Tech/ M.Sc./ M.A/ MBA and M. Tech level in appropriate branches.	NA	39
Professor PB-4 AGP-10000	Ph.D degree with 1st class (60%) or equivalent grade (6.5/10) at both B.Tech/ M.Sc./ M.A/ MBA and M. Tech level in appropriate branches.	NA	7

A panel of eligible candidates will be prepared as per recommendation of selection committee and vacancies that arise within one year will be filled up in sequence from the panel.

Details w.r.t. qualification, relevant experience and other essential requirements and desirable experience (relevant experience and other essential requirements are expected to be amended upward with time as NIT system achieves higher standard):

e) **Asst. Professor (AGP-6000)**

Qualification: Humanities/ Science/ Management candidates expecting to submit PhD thesis within 1 year are encouraged to apply. If selected they will be permitted to join on contract after submission of thesis and will be regularized at AGP 7000 after award of degree.

Relevant experience: None

Other essential requirement: None

f) Asst. Professor (AGP-7000)

Relevant experience: Noe

Other essential requirement: None.

Desirable requirement: Two papers in SCI journal papers or one patent (May be based on PhD work)

g) Asst. Professor (AGP-8000)

Relevant experience: 3 years after Ph.D. or 6 years total (not counting Ph.D. enrolment period) after obtaining M. Tech. degree.

Other essential requirement:

- 2 papers in SCI journals outside Ph. D. work.
- One ongoing sponsored project for candidates from academia.
- Two experimental or computational projects added to teaching laboratories where appropriate.

Desirable requirement:

- One Ph. D. supervision ongoing;
- One Patent;
- Experience in industry or R & D lab. of repute;
- M. Tech., M. Sc. or B. Tech. project supervision on live industrial problems.

h) Associate Professor (AGP-9000)

Relevant experience: 6 years after Ph.D. out of which 3 years should be at the level of Assistant Professor or equivalent in a reputed university, R & D Lab. or relevant industry.

Other essential requirement:

- Six papers in SCI journals;
- One Ph. D. guided as sole or principal supervisor.
- Two projects ongoing or one ongoing plus one completed.
- One self-financed or two Govt. sponsored short-term courses offered.
- Two experiments or computational projects added to teaching laboratories where appropriate.

Desirable requirement:

- One or more patents;
- Supervising one or more students for Ph. D.;
- Strong liaison with industry;
- Offering courses through application of ICT.

i) Professor

Relevant experience: 10 years after Ph.D.

Other essential requirement:

- Three PhDs guided in career as sole or principal supervisor, plus one ongoing.
- The following during the past 4 years:
 - Four papers in SCI journals
 - One high value sponsored or consultancy project
 - Two self-financed or four Govt. sponsored short-term courses as coordinator and main teacher
 - Two experiments or computational design projects added to teaching laboratories where appropriate

Desirable requirement:

- Two or more Patents;
- Supervised more than three students for Ph. D.;
- Preparing E-Learning material.

- At least one self-financed short-term course offered every year.
- Strong liaison with industry.
- Offering significant support to institute management;
- High value sponsored or consultancy projects.

Academic Reimbursements 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:-

- Full funding for attending national/international conference either for presenting a paper or chairing session as per Institute guidelines under professional development fund, limited to Rs.3.00lakhs in 3 years.
- Reimbursement of telephone charges up to Rs.500/- per month.
- Reimbursement of **relocation charges** from within India to join the institute.
- Honorarium of 15,000/- per month to the teachers who have obtained Bhatnagar Award OR are having fellowship of two national Academies. A faculty member is entitled for only one honorarium.
- 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.
- Seed money up to Rs 2.5Lakh for research work will be provided for faculty members joining as Asst Prof.

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

- 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 M.Tech and/ or 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.
- Electronics & Communication Engineering:** Candidates having B.Tech. in Electrical Engineering will be eligible depending on the curriculum covered and their specialisation at M.Tech. and/ or Ph.D.
- Humanities & Social Sciences:** Post Graduate degree in Economics/ English/ Sociology/ Linguistics/ Sanskrit/ Odia/ Hindi or B.Tech degree in any branch followed by PhD.
- Biotechnology:** PhD in Biotechnology or in a related branch of engineering with B.Tech. in any branch of engineering. Candidates with M.Sc. degree in Biotechnology followed by MTech and PhD in Biotechnology will be considered on the basis of subjects studied at M.Tech. and PhD research topics and post PhD experience.
- Medical Engineering:** PhD or M. Tech. with B. Tech in Biomedical Engineering, Electronics Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering, Materials Engineering, Instrumentation Engineering, and Chemical Engineering or B.Tech. in any branch of engineering with PhD and post PhD work in the area of Medical Engineering.

SPECIALIZATION (Indicative only and subject to change as per requirement)

Department	Areas of Specialisation
Biotechnology and Medical Engineering	Stem cell Engg, Tissue Engg, Environmental Engg, Plant Biotechnology Engg, Bioprocess control, Biochemical Engg, Computational Bioengineering, Biotechnology, Bioprocess design, Fermentation Technology, Industrial Biotechnology, System Bioengineering, Biomedical

	Instrumentation, Biomedical image process, Biomedical signal processing , Bio-transport Phenomenon, Biomechanics
Business School	Marketing, Human Resource, Information System, Production, Quantitative technique, Entrepreneurship, IT
Ceramic Engineering	Structural Ceramics, Nano-ceramics, Bio-ceramics, Glass, Refractories, White wares
Chemical Engineering	Transfer operations, Particle Technology, Multiphase flow, Separation Technology, Renewable Energy, Biochemical Process Engg, Process Dynamics & Control, Computer Aided Process & equipment Design, Simulation and Modelling, Computation Fluid Dynamics, Environmental Engineering
Chemistry	Inorganic Chemistry, Organic Chemistry, Physical Chemistry
Computer Science Engineering	Networking, Data Communication, Security , Image processing, signal processing, Computer vision , Architecture, Distributed system, VLSI Microprocessor, Real Time System , Software Engineering
Civil Engineering	Environment Engg, Water Resources Engg, Transportation Engg, Geotechnical Engg, Structural Engg, Remote sensing ad GIS
Electrical Engineering	Power system , Power Electronics , Electronics and Communication , Control System
Electronics & Communication Engineering	VLSI Design (all specializations), Embedded Systems, Wireless Communication, RF & Microwave Engg., Optical Communication, Instrumentation (all specializations), Signal Processing (Signal, image, video), Computer Vision, Machine Intelligence.
Mathematics	Analysis, Algebra, Topology, Algebraic Topology , Statistics Optimisation, Number theory, Applied Mathematics
Mechanical Engineering	Thermal Engg, Cryogenic Engg, Machine Design and Analysis, Production Engineering
Metallurgy and Materials Engineering	Physical Metallurgy, Mechanical Materials, Process Metallurgy, Computational Metallurgy, Composites Materials, Thin Film & Surface Coating
Mining Engineering	Mining Engg, Underground coal, Metal Mining, Geo-mechanics, Rock mechanics, Ground control and strata control Engg., Numerical Modeling, Mine subsidence, Rock Excavation Engg.
Physics	Condensed Mater Physics, Low Temperature Physics, Functional Materials, Atomic and molecular physics, Optics and Laser physics, Astronomy and Astrophysics
Humanities and Social Sciences	Economics, Sociology, English, Linguistics, Sanskrit, Odia and Hindi literature
Life Sciences	Biochemistry, Molecular Biology, Microbiology, Genetics, Cell Biology, Zoology, Botany, Immunology, Human Physiology, Bioinformatics, Biophysics, Biophysical Chemistry
Industrial Design	Mechanical Design, Engineering Design, Industrial Design, Product Design, Ergonomic & Aesthetic Design, CAD-CAM, Robotics & Mechatronics, Concept Design, Computer Graphics
Food Process Engineering	Process and product development, food processing operations, food safety, packaging, food biotechnology, Process and quality monitoring and control, grain processing technology.
Planning & Architecture	Urban planning, rural planning, architecture, urban and rural design, structural engineering, environmental planning
Earth and Atmospheric Science	Earth Science, Geology, Geochemistry, Geophysics, Environmental Earth Science, Atmospheric Science, Space physics, GIS remote sensing, Disaster management.

General information:

- a. Minimum requirement of experience may be relaxed for otherwise outstanding candidates.

- b. 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.
- c. Depending on perceived availability of qualified candidates, different departments may set different short listing criteria.
- d. 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.
- e. Experienced and/or meritorious candidates may be granted higher starting pay on recommendation of selection committees.
- f. For the same achievement in terms of research record, younger candidates will be given preference.
- g. The Institute reserves the right to fill or not to fill any or all the posts advertised.
- h. For faculty members presently serving at NIT Rourkela, all specializations are acceptable.
- i. External candidates not possessing qualifying degrees/ in specified branches but possessing strong academic record with appropriate course background and relevant research experience will be considered on merit.
- j. 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.
- k. Candidate without Ph.D. degree will be required to enrol in the Institute's Ph.D. programme while taking a reduced teaching load.
- l. 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.
- m. Students 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.
- n. 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.
- o. Incomplete applications or applications received after due date are liable to be rejected. Institute will not be responsible for delay/ missing in transit.
- p. Canvassing in any form will lead to rejection of application form.
- q. No interim queries will be entertained.
- r. Asst. Professors currently serving at NIT, Rourkela desirous of change in grade (as Asst. Professor) pay are required to apply against this advertisement.

Notes

- a. Higher starting pay and/or AGP may be offered to deserving candidates on recommendation of the selection committee at the discretion of the Board of Governors.
- b. The performance and progress of Asst. Professors on contract towards acquiring Ph.D degree will be monitored continuously and the appointment shall be terminated if progress is not found satisfactory at any stage. The contract position will be regularized w.e.f date of joining on acquiring Ph.D. degree.

Application Procedure

- a. Application should be filled in online through the link under the heading "Jobs and Tender" → "Faculty Position" at institute website.
- b. Candidates who have applied for faculty position against our advertisement No. 1/2013 dated 19.03.2013 (Special Recruitment Drive for Faculty position under Reserved Category (SC,

ST & OBC) (Backlog Vacancies)) need not apply. Their application will be considered against this advertisement also.

- c. Application forms complete in all respects along with photocopies of caste certificate, M Tech certificate (Attestation not required), reprints/ preprints of two best publications should be sent to “**The Dean (FW), National Institute of Technology, Rourkela – 769 008, Odisha, INDIA**” on being asked for after completion of scrutiny. Please mention **Post Applied** and **Department** on the left-top corner of the envelope containing the application.
- d. Application submitted received after the last date may be considered in the forthcoming selection round or deferred to the next round depending on administrative convenience.
- e. Persons employed in Government and Semi-Government organizations must apply through proper channel. For this the application should be completed online first and the printout of the application generated online should be submitted through employer if individual is shortlisted.
- f. The online application can be filled in multiple sessions.
- g. Candidates are encouraged to check the website from time to time for latest information and application status.
- h. **Important Dates:**
 - Opening date for filing online application through website: **28 March, 2013**
 - Last date for submitting online application: **25 April, 2013**

For any query you may contact:

Prof. S.K.Patra,

Dean (Faculty Welfare)

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