



**NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA-769 008 (ORISSA)**

No.NITR/ES/Adv.09/2008/M/9648

Date: 17.11.2008

**Advt. No. 09/2008**

**For filling up Faculty Positions**

NIT, Rourkela invites applications from Indian nationals, possessing excellent academic background along with commitment to quality teaching and potential for carrying out relevant research, for faculty positions at the level of Professor, Assistant Professor and Lecturer. While the appointment for the posts Professor and Assistant Professor and Lecturer with Ph. D. degree will be in the regular cadre, that of Lecturer without Ph. D. degree will be on a contract for maximum of 3 years duration (5 years in exceptional cases) or till the candidate acquires Ph.D. degree. The contract position will be automatically regularized on acquiring Ph.D. degree. The performance and progress towards acquiring Ph. D. degree will be monitored continuously and the appointment shall be terminated if progress towards Ph. D. is found unsatisfactory at any stage.

**Reservation** : As per Government of India rules.

**Pay Revision** : The pay scales, allowances, designation and other terms and conditions are expected to be revised upwards as a consequence of the 6<sup>th</sup> Pay commission. Candidates are advised to visit the Institute's website.

Please visit our website <http://www.nitrkl.ac.in> for detailed advertisement and application form etc.

Sd/-  
(S. K. Upadhyay)  
**REGISTRAR**



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**Reservation** : As per Government of India rules.

**Qualifications for the posts:**

Ph.D. degree and an excellent academic record with First Class or equivalent at the B. Tech/M. Sc. degree level in appropriate branch and evidence of ability to pursue independent research. Candidates without Ph.D. degree, but possessing Master's degree (M. Tech) in Engineering will be hired only as Lecturer on contract. Ph.D. is compulsory for Science and Humanities subjects. (Candidates expecting Ph. D degree within one year will also be considered, but will be put on contract till award of Ph. D. degree.) A first class (60% marks) or equivalent grade (6.5/10) is necessary at B. Tech. or M. Sc./ M.A. Level in all cases and a completely first class career is desirable. The following provide some exceptions or clarifications to "appropriate Branch".

- I. **Computer science & Engineering**: B. Tech in Computer Science followed by M. Tech/Ph. D., or B. Tech in Electronics/Electrical Engineering followed by M. Tech/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.)
- II. **Electronics & Communication Engineering**: Candidates having B. Tech. in Electrical Engineering will be eligible depending on the curriculum covered.

- III. Humanities & Social Sciences: M.A./M. Sc in Economics, English and Social Work / Sociology / Anthropology / Any discipline with specialization in Tribal Studies; followed by Ph.D.
- IV. Biotechnology: Ph. D or M. Tech. in Biotechnology or in a related branch of engineering with B. Tech. in any branch of engineering. Candidates with M. sc. degree followed by M. tech. and Ph. D. in Biotechnology will be considered on the basis of subjects studied, M. tech. and Ph. D. research topics and post Ph. D. experience.
- V. Medical Engineering: Ph. D. or M. Tech. with B. Tech in Biomedical , Engg., Electronics Engg., Electrical Engg. Mechanical Engg., Metallurgical Engg., Materials Engg.

### **Experience:**

Professor : At least 10 years teaching/research/industrial experience of which 5 years should be at the level of Assistant Professor or equivalent post in industry. The candidate should preferably be below 45 years of age.

Assistant Professor : At least 3 years' teaching/research/industrial experience.

The candidates should preferably be below 40 years of age.

Lecturer : None. Candidates pursuing M. Tech and expected to complete by June 30, 2009 are eligible to apply.

Candidates should preferably be below 35 years of age.

### **Scale of Pay :**

Professor : Rs.16400-450-20900-500-22400/- \* plus allowances as admissible to Central Government employees.

Assistant Professor: Rs.12000-420-18300/- \* plus allowances as admissible to Central Government employees.

Lecturer : Rs.8000-275-13500/- \* plus allowances as admissible to Central Government employees. Candidates without a Ph.D. degree will be hired as lecturer on contract only. The contract will be renewable every year on satisfactory progress with Ph.D. work and good performance in teaching. The contractual appointment will be regularized on award of Ph. D. degree with effect from the date of joining.

**\* Scale of Pay is likely to be revised soon.**

## Specialization

Department	Area of Specialization
<b>Biotechnology And Medical Engineering</b>	Immunotechnology/Bio-informatics/ Plant Biotechnology/ Animal Biotechnology/ Genetic Engg./ Structural Biology & Drug Design/ Biochemical Engg. Environmental Engg./ Cancer Biology/ Molecular Biophysics/ Cell & Tissue Engg./Proteomics, Protein Chemistry & Protein Engineering/ Biophysics & Biochemistry/ Microbiology/Medical Biotechnology/Stem Cell Biology/Virology. Biomedical Engg./ Biomedical Imaging/ Signal Processing/ Bioelectronics/ Biothermodynamics/ Biomedical Instrumentation and control/ Bio-equipment design/ Clinical Biochemistry/ Biomechanics/ Rehabilitation Engg./ Bio-fluid Dynamics/ Immunology/ Hospital Management/ Medical Informatics.
<b>Ceramic Engineering</b>	Refractories, Structural Ceramics including Cop sites, Bio-ceramics, Thin Films and Coatings, Glass & Glass Ceramics, Ceramic Processing.
<b>Chemical Engineering</b>	Transfer operations/ Process dynamics & control/ Simulation and Modeling/ Particle technology/ Multiphase flow/ Thermodynamics and reaction Engineering/ Polymer Science/Separation Technology/Environmental Engg./CA Process & Equipment Design .
<b>Chemistry</b>	Physical Chemistry and Organic Chemistry
<b>Civil Engineering</b>	Structural Engineering/Soil Mechanics and foundation Engineering / Transportation Engineering/ Environmental Engineering/ Water Resource Engineering/ Architecture/Construction Management .
<b>Computer Science Engineering</b>	Computer and Information Security, Computer architecture, Advanced Microprocessor Based Systems, Computer Networks, VLSI Design, Digital Communication, Database Engineering, Software Engineering, Soft Computing, Theoretical Computer Science, Image Processing, Parallel & Distributed Computing. Data Communication, Distributed & Parallel Computing/Digital Signal Processing.
<b>Electrical Engineering</b>	Electrical Machines/Power System/ Power Electronics & Drives/ Control Systems/ High Voltage Engineering/ Instrumentation/ Signal Processing/ Communications Systems/ Microprocessors & Embedded Systems/ Electronic Circuits & Devices.

<b>Electronics &amp; Communication Engineering</b>	Communication Systems/VLSI Design and Embedded Systems/ Telecommunication and Networking/ Digital Signal Processing/ Systems & Control Engineering/ Electronic Instrumentation/Process Control/ Computer Vision and Image Processing/ Soft Computing.
<b>Mechanical Engineering</b>	Mechanisms/Machine Design/ Vibration/ Tribology/Mechatronics Production Engg./ Manufacturing Engg./ Robotics/ Flexible Manufacturing/ Industrial Engg./ Industrial Management/ Operation Research/ Thermal Engg./ Refrigeration and Cryogenic Engineering/ Heat Transfer/ Heat exchangers/ Fluid Mechanics/ CFD/Compression and Expansion machines/Quality Assurance/ Combustion/ Surface Engg./ Advance Materials/ Metal Forming/ Composite Sc. & Technology/ Soft Computing Application in Manufacturing.
<b>Metallurgy and Materials Engineering</b>	Process Metallurgy/Physical Metallurgy/Materials Engineering/ Polymer Engineering.
<b>Mining Engineering</b>	Mine Planning/Mining Methods/Mine Safety Engineering/Quality Control/ Computer Application in Mines/ Mine Environmental Engineering/ GIS & GPS/ Geo-Mechanics/ Mine Economics/Mining Machinery/ Mineral Resource Development & Management/ Applied Geology.
<b>Physics</b>	Low Temperature Physics /Material Science/ Mathematical Physics/ Condensed Matter Physics(Theory)/ Atomic and Molecular Physics/ Statistical Physics.
<b>Mathematics</b>	Analysis/ Algebra/ Topology/ Probability and Statistics/ Advanced Computing/ Fluid Dynamics/ Operational Research/Numerical Analysis/ Number Theory.
<b>Humanities and Social Sciences</b>	<u>Economics</u> : Managerial Economics/ Macro/Money and Financial Economics/ Development Economics/ International Trade and Finance/ Public Finance/Tribal Development.  <u>English</u> : Any Specialisation.  <u>Social Work / Sociology / Anthropology / Any discipline</u> : Tribal Development / Tribal Studies
<b>Life Sciences</b>	Any specialization.
<b>Industrial Design</b>	Any specialization.
<b>Business Administration</b>	Any specialization.

### **Accommodation:**

Suitable residential accommodation as per rules will be provided in the Campus of the Institute on joining the Institute as per availability.

### **General information:**

1. Minimum requirement of experience may be relaxed for outstanding candidates.
2. Mere fulfillment 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.
3. Depending on perceived availability of qualified candidates, different departments may set different short listing criteria.
4. 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 being given preference.
5. Experienced and/or meritorious candidates may be granted higher than starting pay on recommendation of selection committees.
6. For the same achievement In terms of research record, younger candidates will be given preference.
7. The Institute reserves the right to fill or not to fill any or all the posts advertised.
8. Reservation for SC/ST/OBC/ Physically Challenged persons will be as per Government of India norms.
9. Enclosures such as Publication, Research Plan etc as stated in the Application form should be sent along with the application form.
10. Application should be submitted on a signed hard copy. [DO NOT SEND APPLICATION THROUGH ELECTRONIC MEDIA]
11. Names and Addresses (with e-mail addresses and fax numbers) of at least three referees who may also be requested to send their reports directly in confidence to Director, NIT, Rourkela-769008.

12. Persons employed in Government and Semi-Government organizations must apply through proper channel.

Note: (a) For faculty members presently serving at NIT Rourkela, all specializations are acceptable.

(b) 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.

13. 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 after joining NITR, to be decided by the Director.

14. Candidate without Ph.D. degree will be required to enroll in the Institute's Ph.D. programme while taking a reduced teaching load.

15. Candidates who are unable to attend the interview for being abroad or for any other reason will be considered in absentia. A specific request giving sufficient justification must be made in advance. Such candidates may be appointed under regular terms or under contract based on the judgment of the Selection Committee.

16. Students pursuing Ph.D. or M Tech need to enclose a reference letter from thesis supervisor indicating status of his project.

17. Any other details may be submitted in a separate sheet.

18. 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.

#### **How to apply:**

I. Interested candidates may apply in prescribed application form, which may be downloaded from the web site <http://www.nitrkl.ac.in> For obtaining the application form by post, please send a self-addressed envelope (26 cm X 11 cm) to the Registrar, NIT, Rourkela-769008 writing "Request for application form for faculty appointment" on the envelope.

II. Application forms complete in all respects along with Xerox copies of certificates (Attestation not required), list of publication, reprints/preprints of publication and a detailed research plan should reach the Office of the Registrar on or before **31<sup>st</sup> January, 2009** for consideration in the forthcoming round of selection process. Application received after this date may be considered in the forthcoming selection round or deferred to the next round depending on administrative convenience. Incomplete application forms will not be entertained.

- III. Candidates are required to send a self addressed stamped (Rs.5/-) envelop(9"X4" size) along with the application for sending acknowledgement.
- IV. Applications for faculty positions will be received any time during the year. Accumulated applications will be considered in the selection committee when it meets. Deserving candidates may be given short contract appointments depending on the need of the Institute and specialization of the candidate.

**Sd/-**  
**REGISTRAR**

Copy to:

- (1) All HODs/HOOs of Deptts./ Sections/ Centres with the request to give wide publicity.
- (2) Prof. B.D. Sahoo, CSE for necessary action.
- (3) Secretary to Director for kind information of Director
- (4) Notice Boards.

**Sd/-**  
**(S.K. Upadhyay)**  
**REGISTRAR**