



# National Institute of Technology Rourkela

## Rourkela - 769 008

### Admission To Ph.D / M.Tech.(Research) Programmes

#### Starting Autumn Semester(July), 2010-11.

Applications are invited from eligible candidates (Indian nationals) for admission to Ph.D. and M.Tech.(Research) Programmes of the Institute with or without fellowship.

#### Departments and field of Research

- ❖ Biotechnology and Medical Engineering
- ❖ Ceramic Engineering
- ❖ Chemical Engineering
- ❖ Civil Engineering
- ❖ Computer Science & Engineering
- ❖ Electrical Engineering
- ❖ Electronics & Communication Engineering (Including Instrumentation Engineering)
- ❖ Mechanical Engineering
- ❖ Metallurgical & Materials Engineering
- ❖ Mining Engineering
- ❖ School of Management
- ❖ Chemistry
- ❖ Life Science
- ❖ Mathematics
- ❖ Physics
- ❖ Humanities & Social Sciences (English, Psychology, Economics & Sociology)

#### Eligibility Criteria for Ph.D. Programme:

The minimum qualification required for admission to Ph.D. programme in Engineering, Science, Management, Humanities & Social Science is one of the following:

- a) M.E./M.Tech./M.Pharm in relevant discipline with at least 6.5 CGPA or 60 percent marks in aggregate in both B.Tech. (or M.Sc./M.Pharm/MCA) and M.Tech. levels from a recognized technical Institute or University.
- b) B.E./B.Tech./B.Pharm/MCA or equivalent in relevant discipline with CGPA of 7.0 or 65 percent marks in aggregate.
- c) M.Sc. in Basic Sciences with CGPA 7.0 or 65 percent marks in aggregate in relevant disciplines.
- d) M.B.B.S. with CGPA 6.5 or 60 percent marks in aggregate.
- e) M. Sc. /M.A. / MBA / M.Com. in Humanities or Social Sciences or Management with CGPA 6.5 or 60 percent marks.

#### Eligibility Criteria for M.Tech (Research) Programme:

The minimum qualification required for admission to M.Tech (Research) programme in Engineering, Science, Management, Humanities & Social Science is one of the following:

- a) B.E./B.Tech./B.Pharm/MCA or equivalent in relevant discipline with 60 percent marks in aggregate (or 6.5 CGPA).
- b) M.Sc. in Basic Sciences with 60 percent marks in aggregate (or 6.5 CGPA) in relevant disciplines.
- c) M.B.B.S. with 60 percent marks in aggregate (or 6.5 CGPA).
- d) M. Sc. /M.A. / MBA / M.Com. in Humanities, Social Sciences or Management with 60 per cent marks or 6.5 CGPA.

## Applicants Awaiting Results

Applicants who have fully completed the final examination and are awaiting results are also eligible to apply for both M.Tech(Res) and PhD programmes. The following conditions apply:

1. For all course based degrees [ B.Tech, M.Sc., MBA, M.Tech (Regular)] the examination process must be over by the date of admission and a certificate to that effect from the Principal or Registrar of the college/Institute last attended must be presented at the time of admission.
2. For the above applicants, the results must be published by September 30 for Autumn Semester admission. [In case of admission in the middle of an academic year, results need to have been published before admission is granted.]
3. In case successful results are not submitted by September 30, the admission will automatically stand cancelled and no fellowship will be paid.
4. For thesis based Postgraduate degrees [M.Tech(By Research), MS or equivalent] a student given admission to the PhD programme is permitted one year from the date of his/her thesis submission to submit successful result. During this period students awarded fellowship will be paid fellowship at B.Tech rate. Difference of fellowship will be paid on submission of results.

Qualifying Degrees for Admission to Ph.D. / M.Tech (Research) Programmes	
Department	Requisite Academic Qualification
Biotechnology and Medical Engineering (BM)	B.Tech in Biotechnology /Biomedical Engg. / Chemical / Mechanical / Electrical / Electronics / Metallurgical / Polymer/ Instrumentation Engg./ B.Pharm/ MBBS.
Civil Engineering (CE)	B.Tech. in Civil / Mining Engineering.
Chemical Engineering (CH)	B. Tech. in Chemical / Biochemical / Biotechnology / Mining / Metallurgical / Polymer / Mechanical / Ceramic Engineering.
Ceramic Engineering (CR)	B.Tech in Ceramic / Metallurgy / Chemical / Mechanical Engg. or M.Sc in Physics / Chemistry / Material Science.
Computer Science & Engineering (CS)	B.Tech. in Computer Science & Engineering / Electronics / Electrical Engg. / IT, MCA or M.Sc. in Computer Science
Chemistry (CY)	M.Sc. in Chemistry, Physics, Life Sciences or B.Tech. in Chemical / Ceramic / Metallurgical and Materials Engg.
Electronics & Communication Engineering (EC)	B. Tech. in Electronics / Electrical Engg. /Biomedical Engg.
Electrical Engineering (EE)	B.Tech.in Electronics / Electrical & Electronics/ Electronics & Communication / Electrical Engg. /Biomedical Engg.
Humanities and Social Sciences (HS)	M.Sc. / MA in relevant subjects ; B.Tech. in any branch of Engineering, MBA.
Industrial Design (ID)	B.Des. with any specialization, B.Tech. in Mechanical Engineering, Manufacturing Science or Instrumentation Engineering.
Life Sciences (LS)	M.Sc. in Life Sciences,Botany, Zoology, Microbiology, Biotechnology, Biochemistry, Bioinformatics and MBBS, BVSc.
Mechanical Engineering (ME)	B. Tech. in Mechanical / Automobile / Biomedical / Aeronautical / Production / Manufacturing / Industrial / Metallurgy or Material / Polymer / Chemical Engg.
Mathematics (MA)	M.Sc. in Mathematics, Statistics, B.Tec or M.Sc. in Computer Science, Information Technology, Computer Applications.
Metallurgical & Materials Engineering (MM)	B.Tech. in Metallurgy / Met. and Mat. / Ceramic / Chemical / Mechanical / Production / Manufacturing Engg. or M.Sc. in Physics or Chemistry.
Mining Engineering (MN)	B.Tech. in Mining or in any other branch of Engineering or M.Sc. in Geology / Geophysics / Physics / Chemistry.

School of Management (SM)	Masters degree in Management Studies or Industrial Engineering.
Physics (PH)	M.Sc. in Physics, Chemistry or B.Tech. in Metallurgy and Materials Engg.
<b>Notes:</b> <ol style="list-style-type: none"> <li>1. Students with B.Tech. background will be given preference over students with M.Sc. background, even with an M.Tech. degree, for selection as Research Scholars in Engineering Disciplines.</li> <li>2. Students with any other relevant background can be eligible with approval of Senate or Chairman, Senate on the recommendation of the DAC (PG &amp; R).</li> <li>3. Science students admitted to Ph.D. programme in Engineering need Mathematics in +3 level. Students without Mathematics in +3 level may be admitted under the condition that they will have to register for 16 credits of 100 and 200 level Mathematics &amp; Computer Science courses (Theory and Practical) in addition to their normal course requirement, and secure at least C grade in each course.</li> </ol>	

**Notes:**

1. There is no relaxation in academic requirement for SC/ST/OBC/Handicapped students.
2. Students of one discipline may seek admission in a related department which will be considered on the basis of merit of the case. Selection will be made on the basis of academic record, relevance of qualification, **candidate's research interest**, existing research programmes and facilities of the departments, and performance in tests and/or interviews.

**Financial support:**

Fellowships/Assistantships are available to meritorious Ph.D. and M.Tech(Res) students of all departments, the rate of which is given in the following table.

Sl. No.	Academic Programme	Qualification	Period	Rate of Fellowship/ Assistantship
1.	Ph.D.	M.Tech./M.Pharm/MBBS	1 <sup>st</sup> & 2 <sup>nd</sup> year	14,000/-
			3 <sup>rd</sup> & 4 <sup>th</sup> year	15,000/-
2.	Ph.D.	B.Tech./B.Pharm./M.Sc./MA/ MCA [With valid GATE/NET score only]	1 <sup>st</sup> & 2 <sup>nd</sup> year	12,000/-
			3 <sup>rd</sup> & 4 <sup>th</sup> year	14,000/-
			5 <sup>th</sup> year	15,000/-
3.	M.Tech.(Res)	B.Tech./ B.Pharm./ MBA/ M.Sc./ MCA/ MBBS/M.Com./M.A.[With valid GATE/ NET score only]	2 years	8,000/-

Institute fellowships will not be awarded to candidates above 32 years of age for Ph.D.(35 years for SC/ST and women candidates) and above 28 for M.Tech (Res) (31 years for SC/ST and women candidates) on the date of selection. The restriction shall not apply to scholarships awarded by external agencies or sponsored projects.

A student receiving fellowship or other financial support is required to assist faculty members of department in teaching and research activity. He may be required to take theory, tutorial and laboratory classes assist in student projects or other R & D activities as assigned by the HOD.

Financial support is initially for a period of one year. All financial support can be renewed on year to year basis on satisfactory performance.

**Fees:**

Students will be required to pay all institute dues applicable to appropriate academic programme.

**Sponsored/Local Sponsored candidates:**

The Institute welcomes candidates from reputed academic and R & D Institutions, as well as from Government organisations and Industry. Sponsored candidates can work full time in the Institute or at their place of work after satisfying residential requirements, if facilities exist. Local sponsored applicants (working in and around Rourkela) must have enough time and flexibility in their job assignment in order to continue

the programme applied. Sponsored candidates must have completed at least two years of continuous service in the sponsoring organisation, which must be an institution of repute employing good number of engineering/science professionals. The completion of two years continuous service shall be counted on July 31 and January 31 for Autumn and Spring semester admission respectively. Sponsored students are expected to serve their sponsoring organization on completion of their degree in NIT, for at least 3 years after completion of the academic programme.

### **Application Procedure:**

Interested candidates satisfying the eligibility criteria may apply in the prescribed form attached at the end of this advertisement. **The completed application form along with relevant documents should be sent to Assistant Registrar (Academic), National Institute of Technology, Rourkela – 769008.** Application incomplete in any respect or without relevant documents will be rejected.

### **Important Dates for this advertisement:**

Sl No	Event	Date
1	Applications to be scrutinized	Received till 31 <sup>st</sup> March 2010 (Wednesday)
2	Completion of scrutiny of applications by all departments	By 9 <sup>th</sup> April 2010 (Friday)
3	Result of scrutiny in the website ( <a href="http://www.nitrkl.ac.in/admission_notice.asp">www.nitrkl.ac.in/admission_notice.asp</a> )	20 <sup>th</sup> April 2010 (Tuesday)
4	Interview	31 <sup>st</sup> May 2010 (Monday)
5	Result of Interview in the website ( <a href="http://www.nitrkl.ac.in/admission_notice.asp">www.nitrkl.ac.in/admission_notice.asp</a> )	7 <sup>th</sup> June 2010 (Monday)
6	Admission	1 <sup>st</sup> – 19 <sup>th</sup> July 2010 (Except Saturdays, Sundays and Holidays)
7	Semester Registration	19 <sup>th</sup> July 2010 (Monday)
8	Starting of Classes	20 <sup>th</sup> July 2010 (Tuesday)

For the departments with poor availability of research students, as well as in all other special cases, admission can be done throughout the year with the approval of the Director. Intending applicants may contact the Head of the Department or the proposed supervisor.

Applicants are required to visit the above webpage accordingly. Also they are advised to book ticket much prior to the date of interview and admission. In case they fail to qualify either in scrutiny or interview, they will cancel their ticket.

### **Location:**

NIT Rourkela is around 8 kms away from the railway station. Applicants may hire an auto and reach the Institute. Present auto fare is Rs 70/-.

### **Accommodation:**

NIT Rourkela is having Two Guest Houses (South Block and North Block) with limited number of rooms. Accommodation will be provided as per availability on payment basis. Interested applicants may contact in the following details for booking accommodation.

Contact Person: Mr. D. Sahoo  
Telephone: 0661-2462081, 2464810, 2464000

### **For further details please contact:**

Dean(Ac), NIT Rourkela. Phone 0661-2462702, Email: [dean-aa@nitrkl.ac.in](mailto:dean-aa@nitrkl.ac.in)  
Assistant Registrar (Ac), NIT Rourkela, Phone 0661-2462031, Email: [ar-acad@nitrkl.ac.in](mailto:ar-acad@nitrkl.ac.in).

Sd/-  
**Assistant Registrar(Academic)**



# National Institute of Technology Rourkela

Form : NITR/AC/301

Paste here your  
recent passport  
size colour  
Photograph

**For Office use only**

Serial Number of the Applicant : \_\_\_\_\_ / \_\_\_\_\_

**Superintendent (Academic)**

## Recommendation of Departmental Academic Committee

- The candidate may be called for interview.
- The candidate is not suitable for admission to Ph.D./M.Tech.(Res) programme of the Department (Give reason).
- Does not satisfy short listing criteria.
- Others (specify)

**Head of the Department**

## PART – I

### Application for Admission to Ph.D./M.Tech.(Res) Programme

(Application incomplete in any respect will summarily be rejected)

1. Programme of study :  Ph.D.  M.Tech.(Res.) (Tick one)
2. Department /Centres to which applying for : 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
(In order of preference)
3. Name of the candidate in full (Block Capital letters) : \_\_\_\_\_
4. Proposed Research Area (Broad area only) : \_\_\_\_\_
5. Category of studentship : \_\_\_\_\_

- |  |  |
|--|--|
| 1. Full Time student with Fellowship/Assistantship | 6. Project scholars/staff of NIT       |
| 2. Full time student with External Fellowship      | 7. QIP Scholar                         |
| 3. Full time student without Fellowship            | 8. Sponsored student                   |
| 4. NIT faculty                                     | 9. Local Sponsored student (Part Time) |
| 5. NIT regular employees (non teaching)            |  |

### Notes:

- Candidates applying for more than one department are required to submit photo copies of application form and certificates for each department applied for.
- NIT regular employees must enclose administrative permission from the institute.
- Project staff and fellows must enclose administrative permission from Dean (RC); the project must have a tenure of at least 18 months (for Ph.D.) or 12 months (for M.Tech.(Res)) beyond the expected date of joining.
- In case of candidates belonging to categories 8 and 9, Part-II of the application form filled up by the sponsor must be attached.
- Research students without fellowship will be accepted as in those departments where adequate number of applicants qualified for fellowship are not available



**P A R T - II**

**For Sponsored candidates only  
(To be filled up by the employer sponsoring the candidate)**

1. Name of the employer : \_\_\_\_\_
2. Name, designation and address of Administrative Officer/HR manager : \_\_\_\_\_  
: \_\_\_\_\_  
: \_\_\_\_\_  
Phone : \_\_\_\_\_ Fax: \_\_\_\_\_  
Email : \_\_\_\_\_
3. Name of the employee seeking admission at NIT Rourkela : \_\_\_\_\_
4. Designation (Regular) : \_\_\_\_\_
5. (a) First joined on (date) : \_\_\_\_\_
- (b) Holding the present position since (date) : \_\_\_\_\_
- (c) Nature of job : \_\_\_\_\_  
( R & D, Design, Production, Marketing, Administrative, Other )
- (d) Brief description of job assignment for the next three years (Relevant assignment only) : \_\_\_\_\_  
\_\_\_\_\_
- (e) Specific research/study area identified by the employer (if any): \_\_\_\_\_
6. The candidate is sponsored for : tick (√) only one :
- (i)  Full time study at NIT with deputation from the organization [2 years for M.Tech.(Res) / 3 years for Ph.D.].
- (ii)  The candidate will be given enough time and flexibility in his job assignment in order to continue his/her Ph.D./M.Tech.(Res) programme as a local sponsored student and will not be transferred to other places till the completion of the programme.[No full time residential requirement]
- (iii)  Study at NIT while working at our organization after satisfying the residential requirement. The candidate's job assignment will be worked out in consultation with NIT. Dr. \_\_\_\_\_ will serve as his/her second supervisor, if accepted by NIT. A copy of his bio-data is enclosed.

Certified that Mr/Ms. \_\_\_\_\_ employed as \_\_\_\_\_ in this organization is sponsored for admission to the Ph.D./M.Tech.(Res) programme of NIT, Rourkela. He/she is employed in this organization for at least two years in a regular cadre. During his/her studies at NIT, he/she will be on deputation from this organization to satisfy the residential requirement. On completion of the programme he/she will continue to be employed by our organization. He/she has signed an agreement with our organization for at least two (for M.Tech (Res)) / three (for Ph.D.) years on completion of the study programme. A copy of the agreement shall be given to NIT Rourkela when he is relieved from our organization for joining his studies. Further certifies that the candidate is being sponsored by this organization at its own initiative because the organization recognizes that his education and the consequent improvement of performance shall be of substantial value to this organization.

**Encl : As above**

\_\_\_\_\_  
**Date:**

\_\_\_\_\_  
**Signature of Competent Authority with seal**