



राष्ट्रीय प्रौद्योगिकी संस्थान – रायपुर

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
(Institute of National Importance)
G.E. Road, Raipur – 492010 (C.G.)

Phone: (0771) 4270619
Fax : (0771) 2254600
E-mail: registrar@nitrr.ac.in
Website: www.nitrr.ac.in

No./NITRR/Registrar/2014/

Date:

Ph. D. Admission for Academic Year 2014

Applications are invited for Ph.D. Admissions (Full time regular/Sponsored/Part time categories) for the Academic Session 2014 in Department/Centre of Applied Geology, Bio-Technology, Chemical Engineering, Chemistry, Civil Engineering, Computer Application (MCA), Computer Science & Engineering, Electrical Engineering, Electronics & Tele Communication Engineering, Humanities & Social Sciences, Information Technology, Mathematics, Mechanical Engineering, Metallurgical Engineering, Mining Engineering & Physics with specialization and area as mentioned in the Institute website: www.nitrr.ac.in. Numbers of seats for Ph.D. admission are not fixed. Hence preference will be given to OBC/SC/ST/PH candidates over OC candidates if all other things remain the same.

How to Apply:

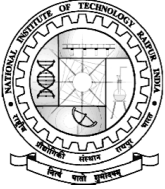
The application forms and other relevant information may be downloaded from the institute website: www.nitrr.ac.in The filled applications along with a crossed DD towards application fee drawn in favour of “**Director, NIT Raipur**” payable at **Raipur** should reach to “**The Registrar, NIT Raipur, CG 492010**” on or before **21.04.2014** in an A4 size envelope with super scribing “**Ph.D. Admission for Academic Year 2014 in _____ (Name of the Department)**”

Application Fee:

Rs. 200/- for General and OBC category applicant. For SC/ST/PH candidates, fee will be Rs. 100/- only.

Note: The results of scrutiny and selection will be displayed in the Institute website www.nitrr.ac.in and no intimation will be sent to the candidates by post. The candidates are requested to visit Institute website regularly.

**Registrar
NIT Raipur**



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NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
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G.E. Road, Raipur – 492010 (C.G.)

Phone: (0771) 2254200
Fax : (0771) 2254600
E-mail: director@nitrr.ac.in
Website: www.nitrr.ac.in

1. ELIGIBILITY FOR PH.D. ADMISSIONS

1.1 Educational Qualifications

The Minimum qualifications for admission to the Ph.D. programme shall be:

A Master's degree in Engineering/Technology/Science/Management/Architecture/Planning/Humanities and Social Science or any other equivalent qualification recognized by the institute. Minimum 60% marks or 6.5/10 CGPA /CPI at Master's degree is essential for admission in Ph.D. programme of the institute.

The concerned department will judge suitability of the candidate for pursuing Ph.D. in particular discipline based on his/her specialization in Master's Degree.

Candidates who are appearing in qualifying examination are also eligible to apply. However, they have to produce a certificate of passing the qualifying examination as stated above on the day of interview.

1.2 Other Conditions

- A candidate should apply for full time regular/sponsored/part time candidate on the prescribed form on or before due date fixed for the same.
- There is no age limit for the applicant.
- Candidates are advised to refer Ph.D. ordinance available in the institute website to make sure their eligibility on full time regular/sponsored/part time category.

2. SELECTION PROCESS

- (i) Selection for Ph.D. program will be done on the basis of objective type written examination and interview.
- (ii) Regular faculty and staff member of NIT Raipur who have successfully completed their probation period need not to appear in written entrance examination. Similarly, UGC/CSIR (JRF)/NET/Teacher Fellowship holder/M. Phil. passed candidates need not to appear in written entrance examination.
- (iii) All other eligible candidates will be shortlisted based on their performance in written examination.
- (iv) All shortlisted candidates along with candidate of category (ii) above will be called for interview for final selection.

3. RESERVATION/RELAXATION

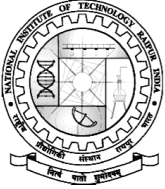
Number of seats for Ph.D. admission is not fixed. Hence preference will be given to OBC/SC/ST/PH candidates over OC candidates if all other things remain the same.

4. DATE OF WRITTEN EXAMINATION AND INTERVIEW

The date of written examination and interview is not yet finalized. These dates along with result of scrutiny and selection will be displayed in the institute website www.nitr.ac.in and no intimation will be sent to the candidates by post. The candidates are advised to visit institute website regularly.

5. SCHOLARSHIP

The award of scholarship/fellowship to full time candidates will be applicable accordingly to Central Government/MHRD norms.



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S.No.	Departments	Broad Research Areas
1	Applied Geology	Petrology and Geochemistry, Hydrogeology, Remote Sensing & GIS.
2	Bio-Technology	Applied Microbiology, Enzyme Technology, Biosensor Development Alternative Energy production, Infectious disease, Biochemistry, Biopolymer development, Metabolic disease.
3	Chemical Engineering	Nanotechnology, Electrochemistry, Semiconductors, Environmental pollution control, Membrane separation, Biodegradation, Nano Composition.
4	Chemistry	Nuclear Industry Materials, Organic Synthesis, Drug Designing & DNA Binding, Heterocyclic Chemistry, Polymer Chemistry Nanomedicine , Polymer Nanocomposite , & Micro Cellular composites, Environmental Chemistry.
5	Civil Engineering	Water and wastewater pollution control, Air pollution, Solid waste management, System Identification. Structural dynamics, Damage detection, Noisy data analysis, Finite element techniques, Concrete Technology, F.R.P., Soil – structure – interaction, Non – linear analysis, Earthquake Engineering, Structural Dynamics.
6	Computer Aplication (MCA)	Heuristic and meta-heuristic techniques for combinatorial optimization problems, Computer Networks, Communication, Internet Security.
7	Computer Science & Engineering	Data mining & Applied Stastics, Time Series Analysis, NLP & Text Mining, Big Data Analysis & Techniques, Distributed Computing System, Cloud Computing, File Replication & Consistency Management, Trust Based Security.
8	Electrical Engineering	Power system protection, Smart Grid protection, protection of lines with FACTS devices, Power system, Power Quality, Transmission Lines protection using AI Techniques (ANN, Fuzzy, GA, Wavelet), Conventional Control, Intelligent Control, Applications of Optimization, Model Reduction, Evolutionary optimization applications in signal processing & control system, Medical Signal & Image processing, speech processing, medical ultrasound.

9	Electronics & Tele Comm.	Wireless sensor networks ,Wireless Communications.
10	Humanities & Social Sciences	Indian Literature , American Literature, English Literature, Comparative Literature, Business Communication.
11	Information Technology	Ad hoc Networks, Sensor Networks.
12	Mathematics	Algebra, Fuzzy Algebra, Rough Algebra. Approximation theory, Fixed point theory, Functional Analysis, Liner Algebra, Queueing Theory, Inventory Systems, Mathematical Ecology and Dynamical systems, Mathematical and chaos Modeling, Fluid Dynamics, Micropolar and couple stress fluids, porous media, Mathematical Modeling, Mathematical Ecology, Cryptology, Cryptographic Boolean functions, Coding theory, Network Security.
13	Mechanical Engineering	Industrial Engineering & Management, Strategic Management, Thermal Engineering (Thermodynamics, Heat Transfer),Mechanical Design Engineering (Tribology, Lubrication & related stress analysis), Design Engineering (Computational Mechanics, Stress Analysis, Dynamics)
14	Metallurgical Engineering	Structure-property, correlation/ Tribology / welding.
15	Mining Engineering	Mining Engineering, Rock Mechanics, Ground Control, Mine planning in open cast mines, Mine Management & General safety, Open Cast Mining, Equipment performance in Mines, Geomatics, GIS & Remote sensing, Computer application, IT Application, Environment, ventilation, Geology, Hydrogeology, Automation, Economics, Management, Civil Engineering application mining, Mining allied areas.
16	Physics	Condensed Matter Physics : Experimental & Theoretical Luminescence, Graphene plasmonic biosensors (Theory)



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PH.D. APPLICATION FORM

Registration Number: _____ (for office use only)

1. (a) Name of the candidate: _____

(b) Date of Birth: DD MM YYYY
[] [] [] [] [] [] [] []

(c) Sex: Male/Female

(d) Marital Status: Married/Single

(e) Father's/Guardian's /Husband's Name: _____

Space for Photo
(Passport Size)
(Attested)

2. Programme Applied for: _____ in the department of _____
with specialisation in _____

3(i) Are you regular faculty/employee of NIT Raipur YES NO

If yes, date of completion of probation: _____

(ii) Are you UGC/CSIR (JRF)/NET/Teacher Fellowship holder/ M. Phil. passed candidate YES NO

(Note: Enclose certificate and proof of the above)

4. Programme category in which interested:
Regular full time Sponsored Part time

5. Are you physically challenged-PH: YES NO

6. Category: GEN () OBC () SC () ST ()
(Please put tick in the appropriate box)

(Note: Copy of the Caste certificate in prescribed Central Government format is to be attached)

7. Nationality: _____

8. Address for Communication

Communication /Mailing Address	Permanent Address
Phone	Mobile
E-mail	

9. Education Qualification (Starting from U.G.)

S.No.	Name of degree	Specialization	Name of Institute / university	Year of passing	% Marks/ CGPA

(Note: Attach attested photocopies of all the certificates)

10. Details of Professional Experience (starting from current experience):

S. No.	Duration	Name and Address of Employer	Position held
1.			
2.			
3.			

11. Publications if any and enclose reprints with full details of publication.

12. Details of Application Fee Enclosed

Demand Draft No.: _____ Amount Rs.: _____

Date: _____ Name of the Bank: _____

(Note: DD must be in favour of Director NIT Raipur and payable at Raipur)

DECLARATION/ UNDERTAKING

- (a) I hereby declare that the above given information is true and correct to my knowledge.
- (b) I have read and understood the rules & regulations given in the Institute Prospectus and promise that I shall obey them.
- (c) I hereby undertake to abide by the rules of the Institute.
- (d) I have noted that if my application is incomplete in any respect or information furnished is proved wrong then my application may be rejected and the admission already offered/granted may be cancelled.
- (e) **Important:** I understand that the results of scrutiny and selection will be displayed on institute website. I will not be intimated individually. Therefore, I have to visit institute website regularly.

Date: _____

Place: _____

(Name & Signature of the Candidate)

ANNEXURE-I OBC Certificat Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES APPLYING FOR
APPOINTMENT TO POSTS / ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER
THE GOVERNMENT OF INDIA

“This certificate MUST have been issued on or after 1st January 2014.”

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of
Shri/Smt. _____ of Village/Town _____
District/Division _____ in the _____ State belongs to the
_____ Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- (ii) Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC dated 9/03/96.
- (v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- (xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

Shri/Smt./Kum. _____ and/or his family ordinarily reside(s) in the
_____ District/Division of _____ State. This is also to certify that
he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the
Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt.(SCT) dated 08/09/93 which
is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004.

Dated:

District Magistrate/
Deputy Commissioner, etc.

Seal

NOTE:

- (a) The term ‘Ordinarily’ used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
 - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar and
 - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

**Caste Certificate issued from Maharashtra State must be validated by social welfare
Department of Maharashtra Government**

ANNEXURE-II OBC Undertaking

(Declaration/undertaking - for OBC Candidates only)

I, _____ son/daughter of Shri _____ resident of village/town/city _____ district _____ State hereby declare that I belong to the _____ community which is recognised as a backward class by the Government of India for the purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide Department of Personnel and Training Office Memorandum No.36033/3/2004 Estt.(Res.) dated 9/3/2004. I also declare that the condition of status/annual income for creamy layer of my parents/guardian is within prescribed limits as on financial year ending on March 31, 2014.

Signature of the Candidate

Place:

Date:

Declaration/undertaking not signed by Candidate will be rejected

ANNEXURE-III SC/ST Certificate Format

(FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO SCHEDULED CASTE OR SCHEDULED TRIBE)

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of
Shri _____ of village/Town _____ in District/
Division _____ of the State/Union Territory _____ belongs to the
_____ caste/Tribe, which is recognized as a Schedule Caste / Scheduled Tribe
under.

The Constitution (Scheduled Castes) order, 1950.

The Constitution (Scheduled Tribes) order, 1950.

The Constitution (Scheduled Castes)(Union Territory) order, 1951.

The Constitution (Scheduled Tribes) (Union Territory) order, 1951.

(As amended by the Scheduled Castes and Scheduled Tribes (Modification) Order 1956, the Bombay Reorganization Act, 1960, the Punjab Reorganization Act, 1966, The State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganization Act, 1971) and the Scheduled Castes and Scheduled Tribes orders (Amendment) Act, 1976.)

*The constitution (Jammu & Kashmir) Scheduled Caste Order, 1956;

*The Constitution (Andaman and Nicobar Islands) Scheduled Tribes, 1959, as amended by the Scheduled Castes and Scheduled Tribes orders (Amendment) Act. 1976;

*The Constitution (Dadra and Nagar Haveli) Scheduled Castes Order 1962;

*The Constitution (Dadra & Nagar Haveli) Scheduled Tribes Order, 1962;

*The Constitution (Pondichery) Scheduled Castes Order, 1964;

*The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;

*The Constitution (Goa, Daman & Diu) Scheduled Castes Order, 1968;

*The Constitution (Goa, Daman & Diu) Scheduled Tribes Order, 1968;

*The Constitution (Nagaland) Scheduled Tribes Order, 1970;

*The Constitution (Sikkim) Scheduled Castes Order, 1978;

*The Constitution (Sikkim) Scheduled Tribes Order, 1978;

*The Constitution (Scheduled Castes) Orders (Amendment) Act, 1990.

*The Constitution (Scheduled Tribes) Order, (Amendment) Ordinance, 1991.

*The Constitution (Scheduled Tribes) Order, (Second Amendment) Act, 1991.

*The Constitution (Scheduled Tribes) Ordinance, 1996

This certificate is issued on the basis of the Scheduled Castes/Scheduled Tribes Certificate issue to Shri _____ Father of Shri _____ of village/town _____ in District/Division _____ of the State/UT _____ who belongs to the _____ caste/Tribe which is recognized as a SC/ST in the State/Union Territory _____ issued by the _____ (name of the prescribed issuing authority) vide their No. _____ dated _____ or Shri _____ and or his/her family ordinarily reside(s) in Village/Town _____ of _____ District/Division of the State/Union Territory of _____.

Place _____

Signature _____

Date _____

Designation _____
(With seal of Office)

NOTE: - (1) The terms ordinarily reside(s) used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

(2) Candidates from Maharashtra have to produce CAST VALIDITY certificate along with the cast certificate

LIST OF AUTHORITIES EMPOWERED TO ISSUE CASTE/TRIBE CERTIFICATE:

1. District Magistrate/Additional District Magistrate/Collector/Deputy Commissioner /Additional Deputy Commissioner / Dy. Collector/ 1st Class Stipendiary Magistrate/Sub Divisional Magistrate/Extra Assistant Commissioner / Taluka Magistrate/Executive Magistrate.
2. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-Divisional Officers of the area where the candidate and/or his family normally resides.

ANNEXURE-IV SPONSORSHIP CERTIFICATE

(Sponsored candidates should attach the following certificate from the employer)

The applicant Mr. / Ms. _____ is employed as _____ in our Institute / Organization since _____ in a pay scale _____. He / She is sponsored to pursue Ph.D. program in the department of _____ at National Institute of Technology, Raipur as full time student. We shall relieve him/her duties in the organization during the first three years of Ph.D. program.

Name and Address of the
Sponsoring Authority

Seal

Signature of the Head of the
Sponsoring Institution / Organization

ANNEXURE-V NO OBJECTION CERTIFICATE FOR PART TIME STUDENT

(Part time candidates should attach the following certificate from the employer)

We have no objection if the applicant Mr./Ms. _____ is employed as _____ in our Institute / Organization since _____ in a pay scale _____ is admitted in the Ph.D. program in NIT Raipur as part time Ph.D. student. He/ She will be permitted to spend minimum 30 contact days per semester in the institute with the supervisor till thesis submission.

Name and Address of the Employer

Seal

Signature of the Head of the Employer Institution / Organization