

BHABHA ATOMIC RESEARCH CENTRE

Ph.D. Programme

IF YOU ARE

**LOOKING FOR AN OPPORTUNITY TO PURSUE Ph.D.
IN FRONTLINE AREAS IN ENGINEERING AND BASIC SCIENCES
IN STATE-OF-THE-ART LABORATORIES
THEN BARC IS THE PLACE FOR YOU!**

Bhabha Atomic Research Centre (BARC) is a premier Institution for Research & Development (R&D) in Nuclear Science & Technology, in particular, and in Biological, Chemical, Engineering and Physical Sciences in general. The Centre has not only been the backbone of the Indian Nuclear Energy Programme, but also has been in the forefront of research in other branches of engineering as well as in basic sciences. Several of its state-of-the-art laboratories and research facilities are unique to it.

BARC conducts Ph.D. programme in various Engineering disciplines, and in basic Sciences such as Physical, Chemical and Life Sciences. Its Ph.D. programme is under the aegis of Homi Bhabha National Institute (HBNI), a Deemed to be University. As per the Rules of HBNI, the Ph.D. programme at BARC consists of course work of one academic year duration followed by research work leading to Ph.D. thesis.

BARC invites applications for its Ph.D. programme commencing in September 2008 under the aegis of HBNI

A limited number of Junior Research Fellowships (JRFs), awarded by the Department of Atomic Energy (DAE), will be offered to those selected for the Ph.D. programme. DAE fellowship is tenable for four years. The fellowship amount is Rs12000/- per month for first and second year and Rs.14000/- per month for subsequent years besides house rent and medical benefits as per rules. The candidates selected can also pursue the Ph.D. programme with fellowship from other sources like UGC-CSIR, DBT, ICAR, ICMR and other national agencies.

SELECTION PROCESS

Selection for the Ph.D. programme is a two-step process: **screening** to short-list candidates followed by **interview** of short-listed candidates.

Screening for Engineering Sciences shall be on the basis of valid GATE-2007/ GATE-2008 score.

Screening for Chemical and Life Sciences shall be on the basis of one of the following: (i) GATE-2007/GATE-2008 score, (ii) Score in the Written Test-2008 of the BARC Training School.

Screening for Physical Sciences shall be on the basis of one of the following:

(i) GATE-2007/GATE-2008 score, (ii) Score in Joint Entrance Screening Tests-2008 (JEST-2008), (iii) Score in the Written Test-2008 of the BARC Training School.

To access various modes of screening

1. **JEST:** Visit the websites <http://jest08.bose.res.in> for details.

2. **BARC Training School Written Test:** It is conducted for short-listing Science discipline candidates for admission to BARC Training Schools. Those who have applied for admission to BARC Training Schools and have opted for its written test have only to state their BARC Training Schools application number on the accompanying application form. Those applicants who do not want to apply for BARC Training School but would like to appear for its Written Test for the purpose of admission to the Ph.D. programme of BARC, can do so by expressing their option through the accompanying application form. For details about BARC Training School programme, visit www.hrdbarc.gov.in.

BARC Training School Test will be held on Sunday February 24, 2008 at the centers listed in Table-1.

Short-listed candidates shall be called for **interview** to be conducted in June-July, 2008 at the BARC Guest House, Anushaktinagar, Mumbai-400 094. Outstation applicants called for interview will be paid to and fro sleeper class train fare by shortest route, or actual fare, whichever is less.

Eligibility

a. Qualifying Degree and other academic qualifications

Those having M.Sc. in Physics/Chemistry/Biology or related science subjects with minimum 60% marks or B.E./B.Tech. or equivalent with minimum 60% marks in one of the following Engineering disciplines: Chemical, Computer, Electrical, Electronics, Mechanical, Metallurgy, Instrumentation are eligible to apply. The applicants applying on the basis of M.Sc. degree should also have scored minimum 60% marks in B.Sc.

Those whose final results of qualifying degree are awaited can also apply. In the event of selection, mark sheet of final result should be submitted by November 30, 2008.

b. Age limit: The candidates desirous of availing DAE Fellowship should have been born on or after September 1, 1982. Age limit is relaxable by three years for OBC and by five years for SC/ST applicants.

c. Nationality: Applicant should be an Indian citizen.

How to Apply

Make two copies of the accompanying application form, affix a passport size photo on each and, along with copies of documents mentioned in the application, mail to

**BARC-Ph.D. Programme
Deputy Establishment Officer (DEO R-IV)
Central Complex
Bhabha Atomic Research Centre
Mumbai-400 085.**

Applicants are advised to mail only by registered or speed post of Indian Postal Services and to preserve the receipt for future reference. Please note that private courier service personnel are not allowed to enter BARC premises.

The application enables you to register for the Written Test of BARC Training School. In case you opt for it, a letter of admission to the Written Test Centre of your choice from Table-1 will be mailed to you. However, even if you do not receive admission letter, you can proceed to your chosen test center with a copy of the application and proof of mailing it.

Table-1: Written Test Centre Code for BARC Training School Written Test

Centre	Code	Centre	Code	Centre	Code
Ahmedabad	01	Coimbatore	06	Jaipur	11
Bangalore	02	Delhi	07	Kolkata	12
Bhubaneswar	03	Guwahati	08	Lucknow	13
Chandigarh	04	Hyderabad	09	Mumbai	14
Chennai	05	Indore	10	Nagpur	15
				Roorkee	16
				Thiruvananthapuram	17
				Varanasi	18

Last Date of receipt of Application: (i) January 15, 2008 for those who wish to register for BARC Written Test.
(ii) April 20, 2008 for others.

Those who wish to apply only on the basis of GATE-2008/ JEST-2008 should do so only after declaration of GATE-2008/ JEST-2008 (as applicable) result.

BHABHA ATOMIC RESEARCH CENTRE
Application for BARC-Ph.D.-2008

Application Number:
(to be allotted by office)

*Affix recent passport
size photograph
and **sign across it.***

1. Name:

2. Address for correspondence:

3. Date of Birth:

4. Nationality:

5. Qualifying degree: M.Sc. , Integrated M.Sc. , B.E./ B.Tech. and equivalent

6. Discipline of the qualifying degree: Chemical Engg , Computer Engg , Electrical Engg , Electronics Engg , Mechanical Engg ,
Metallurgy , Instrumentation , Physics , Chemistry , Bioscience

7. Whether result of qualifying degree available: Yes/No.

(a) If answer to 7 is yes:

(i) year of passing:

(ii) % marks (in case of CPI, multiply CPI by 10 to convert it in to %):

(b) If answer to 7 is No, % marks up to the last semester/ term for which result is available:

8. If qualifying degree is M.Sc., % marks in B.Sc.:

9. Wish to be considered on the basis of GATE-2007 , GATE-2008 , JEST-2008 , BARC Training School Written Test-2008

10. GATE-2007/2008 Score:

Registration number:

11. JEST-2008 Score

Application No.:

12. If opting for BARC Training School Written Test-2008:

(a) Are you applying for BARC Training School: Yes/No

(b) If answer to 12(a) is Yes, BARC Training School Application No.

(c) If answer to 12(a) is No, select the center code from the list of centers:

Date:

Signature of Applicant

Those who wish to apply only on the basis of GATE-2008 /JEST-2008 should do so only after declaration of GATE-2008/ JEST-2008 (as applicable) result.

Enclosures [Photocopies of] 1. Date of Birth Certificate, 2. Mark-lists of all available Semesters/Part (as applicable) of BSc/ BE/ BTech/ MSc; 3. GATE Score Certificate

4. If applicable, photocopy of JRF eligibility declared by any other national agency, such as UGC/CSIR/DBT/ICAR/ICMR and others.