



Government of India  
**DEPARTMENT OF ATOMIC ENERGY (DAE)**  
**Bhabha Atomic Research Centre**  
**Ph.D. Program - 2012**

**If you are looking for an opportunity to pursue Ph.D. in frontline areas in 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 Physical, Chemical, Life and Engineering Sciences in general. The Centre has not only been the backbone of the Indian Nuclear Energy Program, but also has been in the forefront of research in basic sciences as well as engineering sciences. Several of its state-of-the-art laboratories and research facilities are unique to it.

BARC conducts a Ph.D. program in basic Sciences such as Physical, Chemical and Life Science under the aegis of Homi Bhabha National Institute (HBNI), a Deemed to be University. The Ph.D. program at BARC consists of course work of one academic year duration followed by research work.

**BARC invites applications for its Ph.D. programme in Science Disciplines commencing in August 2012 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. program. DAE fellowship is tenable for four years. The fellowship amount is ₹16,000/- per month for first and second year, and ₹18,000/- per month for subsequent years besides house rent allowance and medical benefits as per rules. The selection process for the PhD program of BARC is identical with that of the OCES/DGFS program of the BARC Training Schools. For information about the latter please visit <http://oces.hbni.ac.in>. The selected candidates can also pursue the Ph.D. program with fellowships from other sources like UGC-CSIR, DBT, ICAR, ICMR and other national agencies. A few meritorious candidates may be offered DAE Graduate Fellowship Scheme-Ph.D. (DGFS - Ph.D.) Fellowship. It carries a fellowship of ₹ 20,000/- p.m. in the first year and ₹ 24,000/- p.m. in succeeding years.

**Selection Process :**

Selection for the Ph.D. program is a two-step process: Written Test **screening** to short-list candidates followed by a **Selection Interview** of short-listed candidates.

**Screening for Physical, Chemical and Life Sciences** shall be on the basis of one of the following: (i) GATE-2011/GATE-2012 score or (ii) Written Test-2012 score of the BARC Training School.

**BARC Training School Written Test:** It is conducted for short-listing candidates for interview for admission to BARC Training Schools (BARC TS). **Those who have also applied for admission to BARC TS and have opted for its written test to seek admission to the OCES/DGFS-2012 program of the BARC TS must state their BARC TS application number on the accompanying application form else their application is liable to be rejected.** For details about OCES/DGFS-2012 program of BARC TS, visit <http://oces.hbni.ac.in>.

**BARC Training School Written Test in Science disciplines will be held on Sunday, February 26, 2012 at the centres listed in Table-1.**

Short-listed candidates shall be called for **interview** to be conducted in May - June, 2012 at the BARC Training School, Anushaktinagar, Mumbai - 400 094. List of shortlisted candidates and their interview dates will be displayed on the website <http://oces.hbni.ac.in> on April 10, 2012. 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 in MSc as well as in BSc are eligible to apply. Applicants for Physics discipline should have Physics and Mathematics up to BSc or at subsidiary and/or ancillary level in case of five years integrated MSc. Applicants for Chemistry discipline should have Mathematics up to XII std and Physics up to BSc or at subsidiary and/or ancillary level in case of five years integrated MSc. Applicants in Physics and Chemistry opting to be considered on the basis of GATE Score should have a valid GATE Score in Physics and Chemistry respectively. For Biology and related disciplines MSc in Agriculture, Biochemistry, Microbiology, Molecular Biology, Biotechnology, Genetics, Botany, Zoology, Plant Science, Plant Breeding, Plant Pathology, Entomology, Food Technology, Animal Science, Life Sciences and Biosciences. MSc applicants in Life Sciences should have Physics or Chemistry or Biochemistry or Agriculture Chemistry up to BSc or at subsidiary and/or ancillary level in case of five year integrated MSc with minimum of 60%\* aggregate marks in MSc as well as in BSc. Applicants in life sciences opting to be considered on the basis of GATE Score should have valid GATE Score in Life Sciences or Biotechnology. Those having MSc with specialization in subjects like Fisheries, Horticulture, Forestry, Agronomy, Animal Husbandry, Marine Biology and Home Science etc and BE/BTech/MTech in Biotechnology/Genetic Engineering are **not eligible**.

**\*A minimum of 60% marks means the marks as per the ordinance of the respective university.**

Those whose final results of qualifying degree are awaited can also apply. In the event of selection, mark sheet of final result confirming eligibility as above, should be submitted by Nov 30, 2012.

**b. Age limit:** The candidates desirous of availing DAE Junior Research Fellowships should have been born on or after August 1, 1986. Age limit is relaxable by three years for OBC and by five years for SC/ST applicants. Physically challenged persons are eligible for an age relaxation of 10 years over and above their respective category.

**c. Nationality:** Applicant must be a citizen of India.

**How to Apply:**

**Make two copies of the accompanying application form, affix a passport size photo on each and mail to:**

**BARC-Ph.D. Programme-2012,  
DEO, Recruitment-IV,  
Training School Complex,  
Anushaktinagar, Mumbai - 400 094.**

The application enables you to register for the OCES/DGFS-2012 Written Test of BARC Training School (BARC TS). 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 (OCES/DGFS-2012)**

Centre	Code	Centre	Code	Centre	Code	Centre	Code
Ahmedabad	01	Coimbatore	06	Jaipur	11	Patna	16
Bengaluru	02	Delhi	07	Kolkata	12	Roorkee	17
Bhubaneswar	03	Guwahati	08	Lucknow	13	Thiruvananthapuram	18
Chandigarh	04	Hyderabad	09	Mumbai	14	Varanasi	19
Chennai	05	Indore	10	Nagpur	15		

Those who wish to apply only on the basis of GATE-2012 should apply only after declaration of GATE-2012 result. Candidates who have opted to take the Science Written Test and who also wish to be considered on the basis of their GATE Score, can also submit their GATE score at a later date to the address mentioned above. All candidates who have appeared for BARC TS Written Test should mention the Application Number allotted to them while communicating their GATE score

Important Dates	
Last date of receipt of application for those opting for written test in Science Disciplines	16.1.2012
Written Test	26.2.2012
Last date of receipt of application for those <b>not</b> opting for written test and receipt of GATE Score	31.3.2012
Interview Schedule to be displayed on website	25.4.2012
Selection Interview	22.5.2012 onwards

**BHABHA ATOMIC RESEARCH CENTRE**  
**Application Form for BARC- Ph.D. - 2012**

Application Number:  
(To be allotted by Office)

1.A) Surname & Name-as in class X Board Examination

Certificate (CAPITAL LETTERS):.

Mr/ Ms .....

b) Gender : (Male / Female) .....

2. Postal Address:

.....

.....

City: ..... State: ..... PIN \_\_\_\_\_

3. Contact Tel No (with STD code) .....

Mobile No .....

4. Email ID:.....

5. Date of Birth (use format DD/ MM/ 19YY): \_\_\_\_ / \_\_\_\_ / 19 \_\_\_\_

6. Nationality:

7. Category: General ☐, SC/ST ☐, OBC ☐, Physically Challenged ☐

8. Qualifying degree: M.Sc. ☐, Integrated M.Sc. ☐,

9. Discipline of the qualifying degree: Physics ☐, Chemistry ☐, Bioscience ☐

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

(a) If answer to 10 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 10 is No, % marks up to the last semester/ term for which result is available:

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

12a. Wish to be considered on the basis of (Tick one or more as applicable)

i) GATE-2011 ☐,

ii) GATE-2012 ☐,

iii) BARC Training School Written Test-2012 ☐

12b. GATE-2011/2012 Score: Registration number:

13. If opting for BARC Training School OCES/DGFS-2012 Written Test:

(a) Are you applying for BARC Training School OCES/DGFS-2012 programme:

Yes/No

(b) If answer to 13(a) is Yes, OCES/DGFS-2012 Application No.:

(c) If answer to 13(a) is No, select the center code from the list of centers:

Date:

Signature of Applicant

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