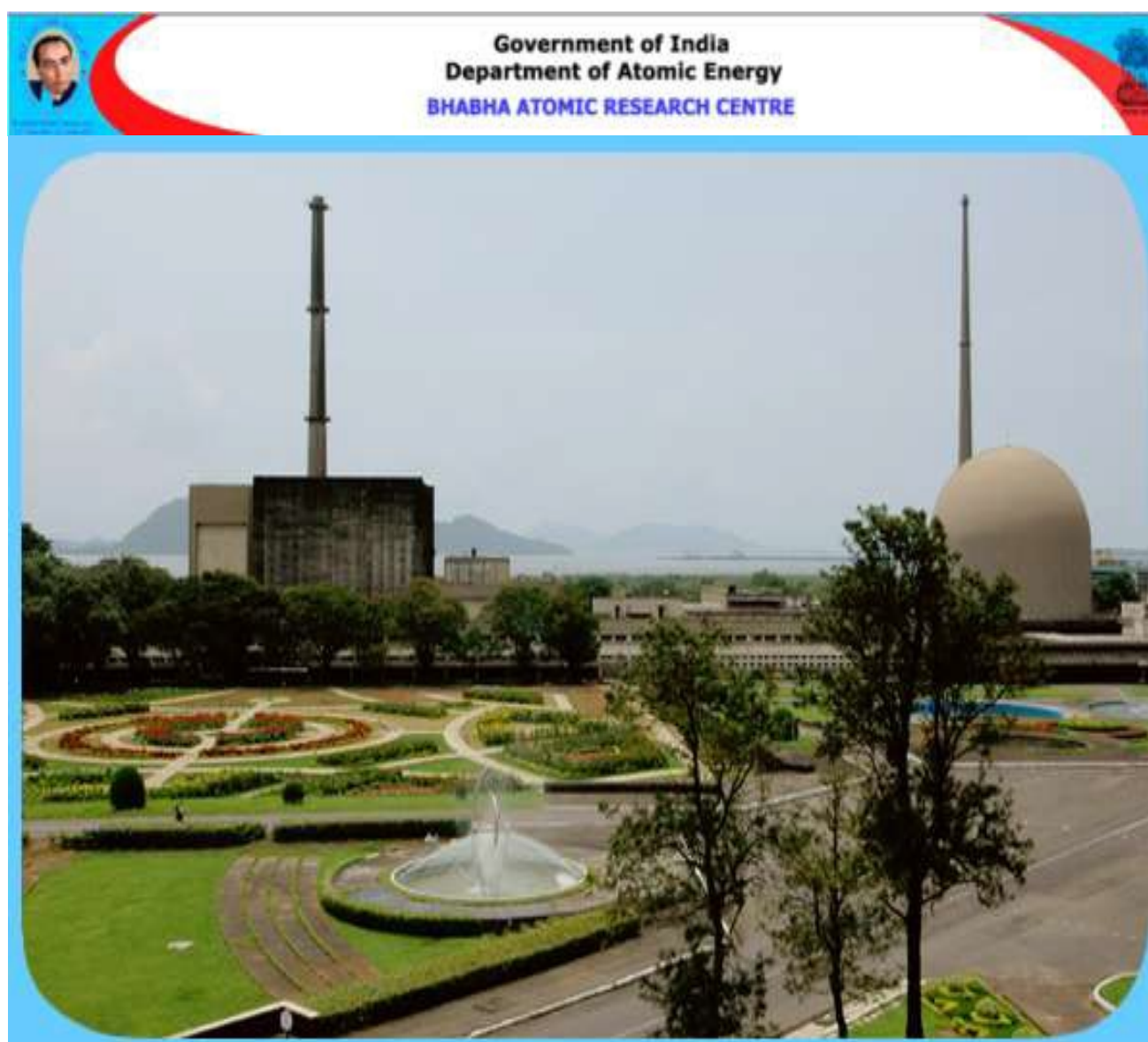


**Applications are invited from Engineering Postgraduates for Admission to DDFS-2023 (formerly known as DGFS-PhD) under the Aegis of Homi Bhabha National Institute (HBNI)
Date for receipt of application is 26/04/2023 to 27/05/2023**



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1. Introduction

Homi Bhabha National Institute (HBNI) a Deemed to be University offers PhD Programme through DAE Doctoral Fellowship Scheme (DDFS) formerly known as DGFS- PhD for Engineering post-graduates (M. E. / M. Tech. / Equivalent Degree) for pursuing PhD Programme. Several state-of-the-art laboratories and research facilities required for Nuclear Power Programme of the Department of Atomic Energy are unique to these institutions.

2. Fellowship and Allowance during DDFS PhD Programme

The fellowship under DDFS is tenable for four years. Any further extension is based on the progress made in PhD programme and recommendations of the Competent Authority. In any case, no extension will be given beyond five years.

The amount of fellowship payable under the scheme is Rs.60,000/- pm (Rupees Sixty Thousand Only) and an annual contingency grant of Rs 40,000/- to meet the PhD related expenses.

Medical benefits under Contributory Health Services Scheme are available for the DDFS student.

The female student will be eligible for maternity leave as per Government of India rules.

Hostel accommodation (if available) is mandatory during PhD programme. In case of non-availability of hostel, DDFS fellows will be eligible for house rent allowance (HRA) as per Government of India rules.

3. Eligibility Criteria

(a) **Qualifying Degree and other academic qualifications:** Candidates should possess M.E. / M.Tech. or equivalent postgraduate degree in Chemical, Computer, Electrical, Electronics, Instrumentation, Mechanical, Metallurgical/Materials, Nuclear Engineering with minimum 60% Marks. In addition to this, the student should have 60% marks in B. E. /B. Tech. or any other degree considered to enter M.E./M.Tech. programme. The 'qualifying 60% marks' should be as per the ordinances of the respective degree awarding university OR equivalent of cumulative grade point average CGPA (converted to % Marks by multiplying with 100/x if the CGPA is on x points scale).

Candidates with MCA/IT degree are **not eligible**.

(b) **Age limit:** The candidates (general class) desirous of availing DDFS fellowship should have been born on or after August 1, 1995(28 years).

(c) **Nationality:** Applicant should be an Indian citizen.

4. Selection Process

Selection for DDFS programme is a two-step process:

1) Applicants who fulfill the abovementioned eligibility criteria will appear in a written Screening Exam to be held at multiple centers across India (Table 4) on June 18, 2023 (tentative).

- 2) Candidates will be shortlisted for Selection Interview based on performance in the screening test as well as on previous academic record. There will be 50% weightage for average of M.E./M.Tech (Semester-I and Semester-II percentages) and 50% weightage for percentage in the BARC Screening Exam.
- 3) The syllabus for Screening Test will be same as that of BE/B Tech.
- 4) The final selection will be based on performance in the Interview only.
- 5) The candidates should be prepared for a 10 minutes presentation on their research interest during Interview.
- 6) Outstation applicants called for Interview will be paid to and fro III AC train fare (from the address of correspondence or the actual place of travel) on production of tickets by shortest route, or actual fare, whichever is less.

5. Howto Apply

Human Resource Development Division (HRDD), Bhabha Atomic Research Centre (BARC) conducts the exams for DDFS. Only Online Applications will be accepted. Candidates must visit the website <https://barephdexam.com> and fill the Online Application form in the period April 26, 2023 to May 27, 2023.

6. About Screening Test

Screening Test is OMR based pen-paper examination. Question Paper in each discipline will comprise 50 questions with four choices (A, B, C or D), only one of which will be the correct answer. A candidate who chooses the correct answer will get 3 marks whereas a candidate who chooses a wrong answer will get -1 marks. A candidate who does not attempt a question will get 0 marks for that question. The duration of the exam will be 90 minutes. Candidates are not permitted to bring a calculator, mobile phone, smart watch, earphone. or any other Electronic device inside the Examination Hall. Candidates are also advised not to wear headcover, ornamental outfits and jewelry while reporting to the examination hall.

7. Eligible Disciplines for Screening Test

The disciplines listed below are only eligible disciplines.

(Table 1)

S. No.	Discipline
1.	Mechanical Engineering
2.	Chemical Engineering
3.	Metallurgical Engineering
4.	Electrical Engineering
5.	Electronics Engineering
6.	Instrumentation Engineering
7.	Computer Engineering

8.	Nuclear Engineering
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8. Category and Date of Birth for Eligibility of Age

The candidates desirous of availing DDFS fellowship should have been born on or after August 1, 1995. Age limit is relaxable by three years for OBC-NCL(non-creamy layer) and by five years for SC/ST applicants. Persons with Disability (PWD) of all categories are eligible for further age relaxation of 10 years. The age limit for the candidates working as faculty in Engineering Colleges is 40 years on 01-08-2023, who desire to pursue PhD. without the fellowship grant.

Table 2

Category	No Disability	Physically challenged
	Maximum age limit as on 01-08-2023 (Born on or after)	Maximum age limit as on 01/08/2023 (Born on or after)
General	28 years (1 st August- 1995)	38 (1 st August-1985)
OBC (Non-Creamy Layer)	31 years (1 st August-1992)	41 years (1 st August-1982)
SC/ST	33 years (1 st August- 1990)	43 years (1 st August-1980)
faculty in Engineering Colleges	40 years (1 st August- 1983)	50 years (1 st August-1973)

9. Constituent Institutions (CIs) of HBNI for DDFS students

There are 11 Constituent Institutions (CIs) of HBNI. The selected students will be admitted to one of the four Constituent Institutions listed below

- (1) Bhabha Atomic Research Centre (BARC), Mumbai;
- (2) Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam;
- (3) Institute for Plasma Research (IPR), Gandhinagar;
- (4) Variable Energy Cyclotron Centre (VECC), Kolkata.

These centers have been in the forefront of research in various branches of engineering viz. chemical, computer, electrical, electronics, instrumentation, mechanical, metallurgical or materials and nuclear Engineering. Several state-of-the-art laboratories and research facilities are unique to these institutions. The PhD. Programme in Engineering Sciences is extremely challenging in view of the expanding Nuclear Power Programme of the Department of Atomic Energy. For the motivated candidates, it offers considerable scope to realize their potential while simultaneously contributing to the important task of nation building in this highly specialized area.

10. Important Dates

(Table-3)

Publish of Advertisement in Newspaper	April 25, 2023
Launch of Online Application Portal	April 26, 2023
Last Date for Online Application	May 27, 2023
Download of Admit Cards	From 3rd June, 2023 onwards
Screening Examination	June 18, 2023 (Tentative)
Declaration of List of Candidates shortlisted for Selection Interview	June 23, 2023
Selection Interviews	July 6, 2023
Declaration of List of Selected Candidates	July 14, 2023

All dates are tentative and candidates must visit the website <https://barcphdexam.com> for updates. For information visit the website www.barc.gov.in or www.hbni.ac.in

11. List of Screening Examination Centres

(Table-4)

S. No.	Examination Centres
1.	Ahmadabad
2.	Bhopal
3.	Bhubaneswar
4.	Patna
5.	Chennai
6.	Delhi NCR
7.	Kolkata
8.	Hyderabad
9.	Lucknow
10.	Mumbai
11.	Nagpur
12.	Thiruvananthapuram