



Government of India  
Bhabha Atomic Research Centre  
Human Resource Development Division  
Anushaktinagar, Mumbai - 400094

Applications are invited from Engineering Postgraduates for Admission to DDFS (formerly known as DGFS-Ph.D) Programme (2022) under the Aegis of Homi Bhabha National Institute

**Last date for receipt of application is 25/06/2022**



Human Resource Development Division (HRDD), Bhabha Atomic Research Centre (BARC) invites applications from Engineering post-graduates (M. E. / M. Tech. / Equivalent Degree) for admission to DAE Doctoral Fellowship Scheme (DDFS) formerly known as DGFS- Ph.D for pursuing Ph.D under the aegis of Homi Bhabha National Institute (HBNI) a Deemed to be University, commencing from August, 2022. The selected students will be admitted to one of the following Constituent Institutions of HBNI:

- (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 centres have been in the forefront of research in various branches of engineering viz. chemical, computer, electrical, electronics, instrumentation, mechanical, metallurgical or materials and nuclear. Several state-of-the-art laboratories and research facilities are unique to these institutions. The Ph.D. 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.

The selected students will be awarded fellowships under the DAE Doctoral Fellowship Scheme (DDFS) for pursuing Ph.D. under the aegis of HBNI. The other terms and conditions are:

1. The fellowship under DDFS is tenable for three 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.
2. The amount of **fellowship payable under the scheme is Rs.60,000/- pm** (Rupees Sixty Thousand Only) besides **house rent allowance** and **medical benefits** as per Government of India rules. An annual contingency grant of Rs. 40,000 is also available for all expenses related to the PhD problem.
3. The selected fellows will carry out research under the joint supervision of two guides, one having strength in basic research and the other in technology development.
4. One has to make own arrangement for accommodation.

#### ELIGIBILITY

- 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).

- b. **Age limit:** The candidates desirous of availing DDFS fellowship should have been born on or after August 1, 1994. 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, who desire to pursue Ph.D. without the fellowship grant.
- c. **Nationality:** Applicant should be an Indian citizen.

### SELECTION PROCESS

Selection for DDFS is a two-step process: 1) Applicants who fulfill the above mentioned eligibility criteria will appear in a written Screening Exam to be held at multiple centres across India on July 24, 2022 (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 25% weightage for B.E./B.Tech. percentage, 25% weightage for average of M.E./M.Tech. Semester-I and Semester-II percentages and 50% weightage for percentage in the BARC Screening Exam. The syllabus for Screening Test is same as that of BE/B Tech. The final selection will be based on performance in the Interview only. The candidates should be prepared for a 10 minutes presentation on their research interest during Interview. Outstation applicants called for Interview will be paid to and fro III AC train fare on production of tickets by shortest route, or actual fare, whichever is less.

### EXAM RELATED INFORMATION

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 ornamental outfits and jewelry while reporting to the examination hall.

### HOW TO APPLY

Only Online Applications will be accepted. Candidates must visit this website <https://barcphdexam.com> and fill the Online Application form in the period May 26, 2022 to June 25, 2022.

### FOR ANY QUERY PLEASE CONTACT

Helpdesk at email address: [ddfs@barc.gov.in](mailto:ddfs@barc.gov.in)

### IMPORTANT DATES\*

Launch of Online Application Portal	May 26, 2022
Last Date for Online Application	June 25, 2022
Download of Admit Cards	From June 27, 2022 onwards
Screening Examination	July 24, 2022 (Tentative)
Declaration of List of Candidates shortlisted for Selection Interview	August 8, 2022
Selection Interviews	August 22, 2022
Declaration of List of Selected Candidates	August 30, 2022

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