

**HOMI BHABHA CENTRE FOR SCIENCE EDUCATION**  
**ESTABLISHMENT**

Ref: HBC/EST/

February 24, 2024

**Advertisement No. 02/2024**

Homi Bhabha Centre for Science Education, TIFR, Mumbai hereby invites applications for the following Project/ Trainee posts at HBCSE, Mankhurd, Mumbai.

**Abbreviation: UR – Unreserved, OBC- Other Backward Class**

Sr. No.	Name of the Post	No. of positions & Reservation		Age limit as on 01/01/2024	Honorarium/ Stipend
		UR	OBC		
1	Project Scientific Officer- E	1	-	Max. 40 years (UR)	<b>Rs. 1,29,000/- p.m.</b> (Incl. of HRA Rs. 19,148/-)
2	Project Scientific Assistant- B	2	1	Max. 28 years (UR) Max. 31 years (OBC)	<b>Rs. 58,400/- p.m.</b> (Incl. of HRA Rs. 8,602/-)
3	Tradesman Trainee (Plumbing)	1	-	Max. 28 years (UR)	<b>Rs. 18,500/- p.m.</b>

**(1) Vigyan Pratibha Project**

**About Vigyan Pratibha Project**

Vigyan Pratibha (<https://vigyanpratibha.in/>) is an extended project targeted towards school students of class 8-10 to nurture their aptitude in science and mathematics. The project involves extensive working with and bridging the world of school teachers on one hand and scientists on the other. A core part of project is the development and standardization of educational material through literature study, school visits and laboratory experimentation.

**Project Scientific Officer- E, Unreserved (UR) – 1 Post**

**Last Date of Online application: 15/03/2024**

**Essential Qualification & Experience:**

1. Ph.D. in Science, Mathematics, Engineering, Science/ Mathematics Education or a related field from a recognized University/Institute.
2. 7 (Seven) years' experience in the field of educational material development, teaching, education research, social or developmental projects, post Ph.D.

**Desirable Qualification & Experience:**

1. The candidate should be proficient in writing in English, and in any Indian language such as Hindi, Marathi, Gujarati, etc.
2. Good communication skills and an interest in local practices, cultures, and diversity in the country.
3. Willingness to undertake extensive fieldwork and travel to schools in different locations in Maharashtra and nearby states.
4. Candidates with prior experience in leading material development, teacher education, and field teaching projects in an educational setup or those with additional degrees in education will be given preference.
5. The candidate should be familiar with word processing and data analysis software. Basic content competency in science and mathematics is also expected.

P.T.O.

**Job Description:**

1. To provide an academic leadership role in the project including standardizing challenging learning units for science and mathematics and field testing them in different schools, teacher professional development and working with in-service teachers on regular basis.
2. The work requires strong academic competence, the ability to interact with teachers and students in different schools (urban, rural, and tribal), and sensitivity toward the learning needs of students from diverse backgrounds in the country.
3. Any other work assigned by the supervisor.

**Candidates with less experience (3 years and above but less than 7 years) may be considered for a Project Scientific Officer-D position.**

**Age limit for Project Scientific Officer- D: Max. 35 years**

**Honorarium for Project Scientific Officer- D: Rs. 1,12,100/- (incl. HRA Rs. 16451/-)**

Selection would be done based on a two stage process: Stage 1) Candidates would be asked to submit their writings on given topics (will be provided after online screening process), and Stage 2) Shortlisted candidates based on Stage 1 would be called for an in-person interview at HBCSE.

**To apply – click here <https://secure.hbcse.tifr.res.in/posts/>**

**(2) Vigyan Pratibha Project**

**Project Scientific Assistant- B, Other Backward Class (OBC) – 1 Post**

**Walk-in-Selection Date & Time: 11/03/2024, 09.00 a.m. to 10.30 a.m.**

**Essential Qualification & Experience:**

1. Full-time B.Sc./ B.S. (in any stream of Science or Mathematics) from a recognized University/Institute with an aggregate of 60% marks or equivalent CGPA.
2. Knowledge of use of personal computers and its applications.
3. 0 - 1 year post qualification experience in the field of educational material development, teaching, education research and social or developmental projects.

**Desirable qualification & experience:**

1. M.Sc. (in any stream of Science or Mathematics) with an aggregate of 60% marks or equivalent CGPA with an aggregate of 60% marks or equivalent CGPA in Graduation.
2. The candidate should have an experience in teaching/ scientific writing/ development of educational activities; basic knowledge of common word processing and data analysis software such as MS-Office, Libre-office, etc.
3. Good proficiency in the English language and writing skills in English and/or any other Indian language.
4. Ability to engage with the learning needs of Indian students.
5. Ability to work with rigorous scientific and mathematical content.

**Job Description:**

1. To contribute toward the development of challenging learning units for science and mathematics and field testing them in different schools; teacher professional development and working with in-service teachers on regular basis.
2. The work requires strong academic competence, the ability to interact with teachers and students in different schools (urban, rural, and tribal), and sensitivity toward the learning needs of students from diverse backgrounds in the country.

3. To work with teachers in schools in online mode + through school visits across the Maharashtra (and nearby states) for implementation of project activities in the school.
4. To contribute to the writing of project reports.
5. Any other work assigned by the supervisor.

**The OBC candidates are required to produce the certificate in the prescribed format only. The prescribed format for the OBC certificate: <https://www.hbcse.tifr.res.in/get-involved/work-at-hbcse/obc-certificate-format.pdf/>**

### **(3) NIUS Astronomy Cell**

**Project Scientific Assistant- B, Unreserved (UR) – 1 Post**

**Walk-in-Selection Date & Time: 13/03/2024, 09.00 a.m. to 10.30 a.m.**

#### **Essential Qualification & Experience:**

1. Full-time B.Sc./ B.S. (Physics, Electronics, Astronomy/ Astrophysics, or other equivalent subjects) from a recognized University/Institute with an aggregate of at least 60% marks or equivalent CGPA.
2. Knowledge of use of personal computers and its applications.
3. 0-2 years' experience as per the requirement

#### **Desirable Qualification & Experience:**

1. M.Sc. (Physics/ Electronics/ Astronomy/ Astrophysics or other equivalent subjects) with an aggregate of 60% marks or equivalent CGPA in Graduation Or Integrated M.Sc. (in any of above subjects) with an aggregate of 60% marks or equivalent CGPA at the end of 6<sup>th</sup> semester.
2. Post-qualification work experience in teaching or research or science communication.
3. Familiarity with Linux operating system and programming languages (python / FORTRAN / C++).
4. Interest in scientific research and education, especially in Astronomy and willingness to help in designing and monitoring student projects.

#### **Job Description:**

1. To help in organizing and monitoring undergraduate student projects, and in organizing teacher and student workshops in Astronomy.
2. Other academic and organisational support for the NIUS Astronomy / Olympiad programme.
3. To help in conducting astronomy outreach programmes including skygazing through telescopes.
4. Any other work assigned by the supervisor.

### **(4) PHYSICS OLYMPIAD LABORATORY PROGRAMME**

**PROJECT SCIENTIFIC ASSISTANT- B, Unreserved (UR) – 1 Post**

**Walk-in-Selection Date & Time: 13/03/2024, 09.00 a.m. to 10.30 a.m.**

#### **Essential Qualification & Experience:**

1. Full time B.Sc./ B.S. (Physics, Electronics, Instrumentation, or other equivalent subjects) with aggregate of 60% marks or equivalent CGPA.
2. Knowledge of use of personal computers and its applications.
3. 0-2 years' experience in the relevant domain.

**Desirable qualification & Experience:**

1. M.Sc. (Physics, Applied Physics, Engineering Physics, Electronics, Instrumentation, or other equivalent subjects) with an aggregate of 60% marks or equivalent CGPA in Graduation, or Integrated M.Sc. (in any of above subjects) with an aggregate of 60% marks or equivalent CGPA at the end of 6th semester.
2. Post-qualification work experience in teaching or research or science communication.
3. Interest in scientific research and education, especially in physics and willingness to help in designing and monitoring student projects.

**Job Description:**

1. To design and develop experiments/ demonstrations for Physics Olympiad and guide undergraduate student in projects in introductory physics and instrumentation.
2. To prepare user manuals and materials related to training in experimental physics.
3. To work in the area of physics education research.
4. Any other work assigned by the supervisor.

**(5) TECHNICAL SERVICES SECTION****Tradesman Trainee- Plumbing, Unreserved (UR) – 1 Post****Walk-in-Selection Date & Time: 14/03/2024, 09.00 a.m. to 10.30 a.m.****Essential Qualification:**

ITI i.e. National Trade Certificate (NTC) (aggregate of 60% marks) awarded by National Council of Vocational Training (NCVT) in 'Plumber'.

**Desirable Qualification:**

Additional ITI i.e. National Trade Certificate (NTC) (aggregate of 60% marks) awarded by National Council of Vocational Training (NCVT) in 'Fitter'.

**Job Description:**

1. To handle all the work related to the plumbing/ Public Health engineering department.
2. Any other work assigned by the supervisor.

**Selected candidates will have to work in the round-the-clock shift duties if requires. The above post is temporary for 6 months and can be extended for another 6 months based on the requirement and performance of the candidate.**

**General Conditions:**

1. In case Universities/Board award letter grades/CGPA/OGPA, the same will have to be indicated as an equivalent percentage of marks as per the norms adopted by the University/Board. In the absence of the same, the candidature will not be considered (while submitting original documents for verification, the candidates will have to produce the norms of the University/Board for conversion of grades/CGPA/OGPA to equivalent percentage of marks.
2. Post/s for General Category (Unreserved) – SC/ST/OBC/EWS candidates can also apply.
3. SC, ST and OBC candidates applying for unreserved posts are not eligible for age relaxation.

4. OBC Candidates should produce a valid copy of the Non-Creamy Layer Certificate issued by the competent authority in the Govt. of India format. The OBC Non-Creamy Layer certificate in GOI format should be preferably for the current financial year on the date of the closing date of recruitment process or utmost not earlier than one year from the date of the closing date of recruitment process.
5. **Project staff will not be entitled for Institute provided accommodation.**
6. **Sr. no. 1 to 4, these posts are temporary for one year and can be extended either up to one or two more years based on the requirement and performance of the candidate.**
7. **Please download 'Application Form' here:**  
<https://www.hbcse.tifr.res.in/get-involved/work-at-hbcse/application-form.pdf/>  
**Bring 'Application Form' duly filled in all respect with enclosures at the time of interview.**

HBCSE reserves the right to conduct written tests, skill test and the interviews or postpone or cancel the entire selection process for any or all posts. Canvassing in any form shall disqualify the candidate.

Before applying for the post, the candidate should ensure that she/ he fulfills the eligibility and other criteria. The Centre would be free to reject applications not fulfilling the requisite criteria, at any stage of recruitment, and if erroneously appointed, such candidates shall be liable to be terminated from service if appointed.

**The HBCSE-TIFR reserves the right to restrict the number of candidates for the recruitment process to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement. One or more vacancies may be filled through the said recruitment process.**

**Sd/-**  
**(Pragati Dandekar)**  
Head Administrative Operations

NOTICE BOARDS

: HBCSE, Mankhurd  
: TIFR Main Campus  
: TIFR CAM, Bengaluru  
: NCBS, Bengaluru & Panchmarhi  
: NCRA, Pune

: GMRT, Pune  
: RAC & CRL, Ooty  
: NBF & TCIS, Hyderabad  
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