

HOMI BHABHA CENTRE FOR SCIENCE EDUCATION
ESTABLISHMENT

Walk-in-Interview

Ref: HBC/EST/

February 26, 2022

Notice No. 01/2022

Homi Bhabha Centre for Science Education, (TIFR), Mumbai hereby invites applications for the following positions at HBCSE.

Sr. No.	Name of the Post	Reservations			Age Below	Honarium
		UR	OBC	SC		
1	Project Scientific Assistant- B	5	2	1	28 (UR) 31 (OBC) 33 (SC)	Rs. 48,500/- (Incl. of HRA Rs. 7,600/-).
2	Project Assistant	2	-	-	28 (UR)	Rs. 31,800/- (Incl. of HRA Rs. 5,400/-).

(1) PROJECT SCIENTIFIC ASSISTANT- B (PHYSICS OLYMPIAD PROGRAMME)

1- POSITION (UR)

Walk-in Interview Date: 16/03/2022

Essential Qualification & Experience:

1. Full time B.Sc./ B.S. in any stream of Physics, Electronics or Instrumentation with aggregate of 60% marks or equivalent CGPA.
2. 0- 1 year experience in the teaching (at + 2 or undergraduate level) or laboratory field.

Desirable qualification & Experience:

1. M.Sc./ M.S. degree in Physics, Electronics or Instrumentation with aggregate of 60% marks or equivalent CGPA as well as in Graduation.
2. Experience in any programming language.

Job Description:

1. To design and develop the theoretical/experimental problems, demonstrations, and educational materials at Higher Secondary School Level and instrumentation.
2. To build development of educational multimedia.
3. To provide administrative assistance to workshops/programmes on science activities of the Centre.
4. To assist in the lab activities etc.
5. Any other work assigned by the supervisor.

P.T.O.

(2) PROJECT SCIENTIFIC ASSISTANT- B (NIUS (PHYSICS) PROGRAMME)

1- POSITION (UR)

Walk-in Interview Date: 30/03/2022

Essential Qualification:

Full time B.Sc./ B.Sc. (Honors)/ B.S. (in any stream of Physics, Electronics or Instrumentation) with aggregate of 60% marks or equivalent CGPA.

Desirable Qualification & Experience:

M.Sc./ M.Sc. (Honors)/ M.S. (in any stream of Physics, Applied Physics, Engineering Physics, Electronics or Instrumentation) with aggregate of 60% marks or equivalent CGPA in Graduation.

1. The candidate should have proficiency and writing skills in English language.
2. Candidates with interest and experience in technical or scientific writing will be preferred.

Job Description:

To assist the NIUS (Physics) group in (a) preparation of user manuals, student handouts and other materials related to experimental physics and instrumentation (b) design and development of simple experiments, demonstrations and undergraduate student projects in introductory physics and (c) organization and administration related to NIUS camps / programme at HBCSE, Mumbai.

(3) PROJECT SCIENTIFIC ASSISTANT- B (PHYSICS OLYMPIAD LABORATORY PROGRAMME) 1- POSITION (UR)

Walk-in Interview Date: 16/03/2022

Essential Qualification & Experience:

1. Full time B.Sc./ B.S. in any stream of Physics, Electronics or Instrumentation with aggregate of 60% marks or equivalent CGPA.
2. 0- 1 year experience in the teaching (at + 2 or undergraduate level) or laboratory field.

Desirable qualification & Experience:

M.Sc./ M.S. degree in Physics, Applied Physics, engineering physics, Electronics or Instrumentation with 60% marks or equivalent CGPA with aggregate of 60% marks in Graduation or equivalent CGPA.

Job Description:

1. To design and develop experiments/ demonstrations 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.

(4) PROJECT SCIENTIFIC ASSISTANT- B (COMPUTER FACILITY) 1- POSITION (UR)

Walk-in Interview Date: 24/03/2022

Essential Qualification & Experience:

1. Full time B. Sc. / B. S. degree in Computer Science/ Information Technology / Electronics with aggregate of 60% marks or equivalent CGPA.

OR

1. Full time Diploma in Engineering in Computer Science/ Information Technology / Electronics with aggregate of 60% marks or equivalent CGPA.

And

2. 1- 2 years post-qualification experience as Web Developer.

Desirable qualification & Experience:

1. M.C.A. or M.Sc. /M. S. degree in Computer Science / Information Technology / Electronics with at least 60% marks or equivalent CGPA. B.E./B.Tech. in Computer Science / Information Technology / Electronics / Electronics & Telecommunications as well as in Graduation/ Diploma.

2. Ability to work with the team to define and deliver on web projects & IT services.

3. Good communication skills.

Essential skills required:

1. Strong development skills of web programming languages like Python, PHP, Java and SQL/NO-SQL technologies. Good understanding of front-end technologies, such as JavaScript, ReactJS/Jquery/Angular, HTML5, and CSS3. Understanding of git, web frameworks like django, laravel, flask etc.

2. Good working knowledge of CMS like Plone, Wordpress etc and web code security.

3. New software Development, maintenance and managing websites. Editing, writing, or designing Website content.

Job Description:

1. To develop the online forms for day-to-day functioning, continuous improvements of the digitalizing centre work operations. To understand the requirement of users and mapping them into a technical doc and do the development of the new websites.

2. To take Responsibility for upkeep and smooth functionality of the CMS website which involves maintenance of websites with platforms like wordpress, plone & grav etc. To update data on the websites. Develop/ customize modules on CMS websites as per requirements.

3. To implement a robust set of services and APIs to power the web application, web modules, integration with SSO.

4. To maintenance of the current and upcoming websites, web portals, web services, monitoring web security, design additional features.

5. To provide user IT supports for running services of the computer lab. Knowledge to run GNU/Linux OS.

6. Any other work assigned by the supervisor.

P.T.O.

(5) PROJECT ASSISTANT (ACCOUNTS SECTION) 2- POSITIONS (UR)

Walk-in Interview Date: 15/03/2022

Essential Qualification & Experience:

1. Full time **Graduate** with aggregate of 50% marks or equivalent CGPA of any recognized University/ Institute.
2. Minimum 1- year experience in clerical work in Accounts in large and reputed organization.
3. Should be familiar with use of computers and accounting software's.

Desirable Qualification:

1. Preference will be given to the Commerce Graduate.
2. Experience in using accounting software.
3. Knowledge of written and spoken English.

Job Description:

1. All work related to Accounts such as to make all entries of bills in the software, to check and prepare bank reconciliation statements, taxation, maintain and prepare registers etc.
2. Any other work assigned by the supervisor.

(6) PROJECT SCIENTIFIC ASSISTANT- B (VIGYAN PRATIBHA PROJECT)

1- POSITION (OBC)

Walk-in Interview Date: 22/03/2022

Essential Qualification & Experience:

1. Full time B.Sc./ B.S. (in any stream of Science or Mathematics) with aggregate of 60% marks or equivalent CGPA.
2. One year post qualification experience in the relevant field.

Desirable qualification & experience:

M.Sc. (in any stream of Science or Mathematics) with aggregate of 60% marks or equivalent CGPA as well as in Graduation.

1. The candidate should have an experience in teaching/ scientific writing/ development of educational activities; basic knowledge of common word processing and data analysis softwares such as MS-Office, Libre-office, etc.
2. Good proficiency in English language and writing skills in English and/or any other regional language.
3. Ability to engage with learning needs of Indian students and also working with rigorous scientific and mathematical content.

P.T.O.

Job Description:

1. To assist in development of educational resources (learning units, videos, activities) in science and mathematics under Vigyan Pratibha Project (<https://vigyanpratibha.in/>).
2. To work with teachers in schools in online mode + through school visits across the state for implementation of project activities in the school.
3. Any other work assigned by the supervisor.

The OBC candidates are required to submit the certificate in the prescribed format. The format for the OBC certificate is available here.

<http://www.hbcse.tifr.res.in/advnt/obc-caste-certificate/>

(7) PROJECT SCIENTIFIC ASSISTANT- B (MATHEMATICS EDUCATION RESEARCH PROGRAMME) 1- POSITION (SC)

Walk-in Interview Date: 23/03/2022

Essential Qualification & Experience:

1. Full time Bachelor of Science in any stream of Mathematics and related fields with aggregate of 60% marks or equivalent CGPA.
2. One year post qualification experience in teaching or relevant.
3. Knowledge of use of personal computers and its applications and handling social media.

Desirable qualification & experience:

M.Sc of Science in any stream of Mathematics and related fields with aggregate of 60% marks or equivalent CGPA as well as in Graduation.

Job Description:

1. The candidate should have a strong interest in the field of teaching and learning of Mathematics.
2. To be involved in the organisational and administrative activities of the Mathematics lab.
3. To assist in literature reviews, data collection, data entry, analysis, and report writing.
4. To be involved in teaching and conducting workshops (offline and online, in English, Marathi or Hindi) for students and teachers in Mumbai and other places in India.
5. Any other work assigned by the supervisor.

The SC candidates are required to submit the certificate in the prescribed format. The format for the SC certificate is available here.

<http://www.hbcse.tifr.res.in/advnt/sc-certificate/>

(8) PROJECT SCIENTIFIC ASSISTANT- B (BIOLOGY OLYMPIAD CELL)

1- POSITION (OBC)

Walk-in Interview Date: 17/03/2022

Essential Qualification & Experience:

1. Full time Graduate in Science (B.Sc.) in Microbiology/ Botany/ Zoology/ Life Sciences/ Biotechnology/ Biochemistry with consolidated minimum 60% marks or equivalent CGPA.
2. The candidate should have 0 to 2 years post qualification experience in the relevant field.
3. Knowledge of personal computers and its application is desirable.
4. Proficiency in English is desirable.

Desirable Qualification:

M.Sc. in Microbiology/ Botany/ Zoology/ Life Sciences/ Biotechnology/ Biochemistry with aggregate of 60% marks or equivalent CGPA in Graduation.

Job Description:

1. To develop and standardize challenging experiments in various disciplines in Biology.
2. To assist biology cell members in various other activities and organization of the programs of the Cell.
3. Any other work assigned by the supervisor.

Candidate who has already attended the interview twice for the ‘Biology Olympiad cell’ will not be considered.

The OBC candidates are required to submit the certificate in the prescribed format. The format for the OBC certificate is available here.

<http://www.hbcse.tifr.res.in/adv/obc-caste-certificate/>

(9) PROJECT SCIENTIFIC ASSISTANT- B (ETHICAL ENGINEERS THROUGH PARTICIPATORY THEATRE: RESEARCH AND DEVELOPMENT) 1- POSITION (UR)

Walk-in Interview Date: 29/03/2022

Project Description:

Engineers need to understand the interconnections between social, ethical, environmental, and economic impacts of their scientific and technological contributions. In everyday life, technology constructs us as people, partly by re-producing categories such as gender, sexuality, caste, class, and ability, but also by a variety of other processes. In this project, we will design participatory theatre workshops that enable participants to explore these experiences more deeply, and reflect on what technologies might look like from queer feminist lenses.

P.T.O.

Essential Qualification:

Full time B.Sc./ B.S. in any stream of Science with an aggregate of 60% marks or equivalent CGPA.

OR

Diploma in Engineering with aggregate of 60% marks or equivalent CGPA in relevant discipline.

Desirable Qualifications & Experience:

1. MSc/MA/MSW in education, sociology, social work, science and technology studies, history and philosophy of science/technology, or psychology with aggregate of 60% marks or equivalent CGPA in B.Sc./ BS.
2. Good written and oral communication skills in English and Marathi.
3. Good at interacting and communicating with a wide variety of people.
4. Project management skills.
5. Interest in interactive and participatory theatre techniques (such as Theatre of the Oppressed, Playback Theatre, etc.)
6. Interest in innovative teaching practices.
7. Experience conducting interviews and writing reports summarizing interview data.
8. Experience with making field observations and writing field reports.
9. 1-2 experience in social work or in the development sector.
10. Enthusiastic about learning qualitative research skills.

Job Description:

The selected candidate would be expected:

1. To participate in all aspects of the project, including participating in meetings; collaborating on research design, data collection, data organizing and storage, data analysis; and writing reports and making presentations on the project.
2. To manage logistics of project activities and meetings, and organize workshops under the supervision of the team leads.
3. The candidate would be eager to take initiative and participate enthusiastically in all project activities.
4. Any other work assigned by the supervisor.

Post no. 1 to 8 are temporary posts for one year. That can be extended up to one or two more years based on the performance of the candidate.

Post no. 9 is temporary post for one year. That can be extended up to Six months based on the performance of the candidate.

Project staff will not be entitled for Institute provided accommodation.

[Instructions for applicants: Please download 'Application Form' here. Bring 'Application Form' duly filled in all respect with enclosures at the time of interview.](#)

Considering the constraints imposed by the Covid-19 pandemic, HBCSE-TIFR reserves the right to conduct screening tests, written tests, skill test, interviews, etc. HBCSE/ TIFR also reserves the right to postpone or cancel the entire selection process for any or all posts. Canvassing in any form shall disqualify the candidate.

P.T.O.

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 application 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.

Applicants in Govt. / Semi-Government / Public Sector undertakings /Autonomous bodies must bring No Objection Certificate from their Reporting Officer at the time of verification of original documents/Interview.

Sd/-

(V. P. Raul)

Head, Administration & Finance

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