भारतीय प्रौद्योगिकी संस्थान
काशी हिन्दू विश्वविद्यालय

IIT INDIAN INSTITUTE OF TECHNOLOGY BANARAS HINDU UNIVERSITY

संगणक विज्ञान एवं अभियांत्रिकी विभाग **Department of Computer Science and Engineering**

21.04.2025

Recruitment of Junior Research Fellow

Applications are invited for the post of **Junior Research Fellow(JRF)** to work on a project titled "Design and Development of Computer based Intervention Model for Enhancing Numerical Cognition of Pupils to Cope with Mathematics Curricula in Primary School" sponsored by the Department of Science and Technology, India under the Cognitive Research Initiative (CRI) for three years.

Project No.: R&D/CNA/1817/DST/CSE/23-24/05/528

Objectives of the Project:
- Design and development of virtual reality (VR) based intervention on non-symbolic mathematics to improve concepts of number systems. Validating the outcome of the VR based intervention over other types of interventions.
- Design and development of computer based games with the help of immersive media on symbolic mathematics and curriculum based mathematics for children of Grade I and Grade II in primary schools around BHU, Varanasi.
- Development of effective Viewpoint Analyzer such as Field-of-View Prediction in 360- Degree VR videos, Grouping Viewpoints of users.
- Development of passive monitoring tools to capture brain signals of the students while they will undergo intervention and finding the correlation between the brain signal and the outcome of the training.

Details of the Position:
- Name of Position: Junior Research Fellow(JRF)
- Number of Positions: 01
- Last Date of Application: **May 25, 2025**
- Tenure: Three Years (initial appointment will be for one year which may be extended based on performance)
- Emoluments: INR 37,000/- + 18% HRA per month for JRF
- Qualifications
    - ★ M.Tech./M.E. degree in Computer Technology/ Information Technology/ Electronics and Communication Engineering/ Mathematics and Computing/ All related subjects of Computer Engineering with minimum 60% marks (or, 6.0 CPI on a 10-point scale).

        or

        B.Tech./B.E. degree in Computer Technology/ Information Technology/ Electronics and Communication Engineering/ Mathematics and Computing/ All related subjects of Computer Science & Engineering with minimum 75% marks (or 7.5 CPI on a 10-point scale) with GATE in CS/IT/Data Science.

    - ★ Qualified in GATE in CS/IT/Data Science or National Eligibility Tests such as CSIR-UGC NET including lectureship (Assistant Professor)

- Desirable Skills/Experiences:

    □ Hands-on experience with implementing VR applications. Good communication skills in English
- Upper Age Limit: 28 Years for JRF. Age relaxation is applicable as per Government of India (GoI) norms

Application Procedure:
Make a single PDF file with the application form (given on the next page) along with self-attested copies of all relevant qualification certificates, mark sheets, experience certificates, age-proof, and other relevant documents, and email it to bidyut.cse@itbhu.ac.in with subject line *Application for JRF May 2025* by **May 25, 2025**. Document verification with the original will be done at the time of the interview.

General Terms and Conditions:
  i.   The PI has the discretion to restrict the number of candidates to be called for interview to a reasonable limit by qualifications and/or experience higher than the minimum prescribed in the advertisement.
  ii. Only shortlisted candidates will be communicated through email to appear for an interview.
  iii. No TA/DA will be paid for attending the interview.
  iv. The position is purely temporary and coterminous with the project.
  v.   Refer to https://www.iitbhu.ac.in/positions for further updates and details, if any.

Contact Details:
Dr. BIDYUT KUMAR PATRA (Associate Professor), Email ID: bidyut.cse@itbhu.ac.in ; Mobile: 9337556928
Project No.: R&D/CNA/1817/DST/CSE/23-24/05/528

<p style="text-align: center;">**APPLICATION FOR JRF POSITION IN THE PROJECT**</p>

<p style="text-align: center;">**Design and Development of Computer based Intervention Model for Enhancing Numerical Cognition of Pupils to Cope with Mathematics Curricula in Primary School**</p>

Project Code: R&D/CNA/1817/DST/CSE/23-24/05/528

Please fill up all the fields of the Application Form properly. Otherwise, your application will not be considered. Email the form to bidyut.cse@itbhu.ac.in along with self-attested copies of all mark sheets and certificates.

1. **FULL NAME:**

2. **DATE OF BIRTH:**

3. **SEX:**

4. **CATEGORY (GEN/SC/ST/OBC/EWS):**

5. **MARITAL STATUS:**

6. **NATIONALITY:**

7. **PHYSICALLY HANDICAPPED (YES/NO):**

8. **NAMES OF PARENTS/GUARDIANS:**

9. **ADDRESS OF CORRESPONDENCE (WITH CONTACT NO.):**

10. **EMAIL ADDRESS**:

11. **GATE SCORE WITH YEAR:**

12. **ACADEMIC BACKGROUND (STARTING FROM LATEST DEGREE UPTO SECONDARY):**

SL. NO.	QUALIFICATION	UNIVERSITY/ INSTITUTE/ BOARD	YEAR OF PASSING	SUBJECTS	PERCENTAGE/CGPA	DIVISION
1.						
2.						
3.						
4.						

13. **EXPERIENCE OF PROFESSIONAL WORK, IF ANY:**

APPLICATION FOR JRF POSITION IN THE PROJECT

Design and Development of Computer based Intervention Model for Enhancing Numerical Cognition of Pupils to Cope with Mathematics Curricula in Primary School

SL. NO.	ORGANIZATION	DESIGNATION	DATE FROM	DATE TO
1.				
2.				
3.				
4.				
5.				

14. **NAME, EMAIL ADDRESSES, AND CONTACT DETAILS OF TWO REFEREES:**

REFEREE ID.	REFEREE NAME	DESIGNATION	EMAIL ADDRESS	CONTACT NUMBER
1.				
2.				

DECLARATION:

I hereby declare that I have carefully read and understood the instructions and particulars of this application and that all entries in this form as well as in the attached sheets are true to the best of my knowledge

DATE   **SIGNATURE**   **PLACE**