



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/65

15 December 2023

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Research Project at this Institute. The position is purely temporary, initially for a period of 01 Year, and same extendable but co-terminus with the duration of the project, on a contractual basis with consolidated pay. The requisite qualification, experience and other details are given below:

1.	Project No.	S/SERB/DPR/20230033
2.	Project Title	Modulation of the speed of Intrinsic Alpha Frequency (IAF) with tACS modulates variability of illusory speech perception
3.	Name of the Project Investigator	Dr. Dipanjan Roy
4.	Duration for initial appointment	1 year (extendable up to 3 years)
5.	Name of the Post	Senior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 35,000/- +HRA @ 16%
8.	Minimum Qualification and Experience	<p><u>Essential Qualification:</u> Post Graduate Degree in Basic Sciences, humanities, cognitive sciences, social sciences, Psychology or allied areas, engineering with at least 60% marks or at least 6.0/10 CPI or CGPA for GEN/GEN-EWS/OBC (55% for SC/ST/PD) through a process described through any one of the following:</p> <ol style="list-style-type: none">1) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.2) The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.3) Qualification prescribed above with two years of research experience. <p style="text-align: center;">OR</p> <p>The applicant must have MBBS with MD/MS in Psychology or allied areas or equivalent with at least 60% marks or at least 6.0/10 CPI or CGPA for GEN/GEN-EWS/OBC (55% for SC/ST/PD) through a process described through any one of the following:</p>

		<ol style="list-style-type: none"> 1) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. 2) The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc. 3) Qualification prescribed above with two years of research experience. <p style="text-align: center;">OR</p> <p>Post Graduate Degree in Professional Course selected through a process described through any one of the following:</p> <ol style="list-style-type: none"> 1) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. 2) The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc. 3) Qualification prescribed above with two years of research experience. <p><u>Desirable Qualification:</u> Candidates with a strong background preferably in Psychological Sciences, Cognitive Science and engineering, electrical engineering, biomedical engineering, neuroengineering, neuroscience, Physics with prior knowledge and experience of EEG experiment design and analysis, human subject handling will be given preference.</p>
9.	Job Description	Designing behavioral paradigm to study multi-sensory speech processing and EEG signal recording, Brain stimulation using trans cranial alternating current stimulation and source EEG modelling. Experiment design, data analysis and writing research articles.
10.	Brief description of Project	Speech is a highly complex sensory signal, and comprehension demands involvement of complex hierarchical processes including multiple sensory modalities. Based on our earlier findings, we hypothesize that Individual Alpha Frequency (8-12Hz) a prominent Brain Rhythm and the temporal window of subject specific audio-visual multi-sensory integration window to be related. Since recent findings suggest that individual alpha frequency (IAF) correlates with temporal illusions, it remains plausible that speed of IAF could modulate perception of illusion. However, the relationship between IAF and modification in subjective illusory perception and

		variability has not been clearly established. Our findings will have important consequence for the multi-sensory research, and it's benefit with aging, understanding multi-sensory processing for congenital blind individuals, also will enable us to get fundamental understanding in the application areas e.g., Brain-Computer Interfacing (BCI), neurostimulation, and future auditory prosthesis, EEG-based brain state dependent neuroplasticity. Brain networks involved in memory and attention guided speech processing.
11.	Maximum Age	35 years
12.	Age Bar	Age will be calculated on the closing date of the online submission of the application. Relaxation in age for the category candidates only would be admissible as per Central Government Rules. Also kindly enclose the Caste Certificate along with the application.

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process** up to **29 December 2023**.

It is mandatory to send the soft copy of the application with all relevant documents to recruitment_rnd@iitj.ac.in (Please mention the advertisement number in the subject line of the email). **Without documents, your application will not be considered.** There is no need to send the hard copy.

General Instructions to Applicant(s)

1.	The post(s) is purely temporary and contractual for a period of 01 Year and extension based on satisfactory performance, but co-terminus with the duration of the project
2.	Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected.
3.	Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature.
4.	Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview.
5.	The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
6.	Higher initial pay may be given to exceptionally qualified/deserving candidate.
7.	No TA/DA shall be paid to the candidates for attending the interview.
8.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.
9.	Canvassing in any form will be a disqualification.

10.	No interim correspondence will be entertained.
11.	No need to send hard copy.

Officer In-charge
Research & Development