



अखिल भारतीय आयुर्विज्ञान संस्थान नागपुर

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR

Address: Plot no 2 sector 20 Mihan Nagpur- 441108

Website: - <https://aiimsnagpur.edu.in>

Adv No: AIIMS-NAG/PHY/BCI/2025/01

Dated: 30.04.2025

RECRUITMENT TO POST OF 'PROJECT TECHNICAL SUPPORT III (Technical Assistant/Officer) UNDER DHR-ICMR FUNDED PROJECT UNDER DEPARTMENT OF PHYSIOLOGY

| | |
|--------------------------------|---|
| Name of the Post | Project Technical Support III (Technical Assistant/Officer) |
| Name of the Project | Development of Deep Learning Based Brain-Computer Interface System for Recognition of Covert Speech for Augmentation of Patient Care Communication using Hybrid EEG-fNIRS Signal |
| No. of Post | 01 (One) |
| Place of Posting | AIIMS Nagpur |
| Essential Qualification | <ul style="list-style-type: none">• Three Years Graduate Degree in Science discipline plus 3 years experience OR <ul style="list-style-type: none">• Postgraduate Degree in relevant subject/field OR <ul style="list-style-type: none">• Four-Year Graduate Degree in Engineering/IT/Computer Science plus 3 years of experience |
| Desirable Qualification | <ul style="list-style-type: none">• Experience in EEG, fNIRS data acquisition• Signal processing skills in MATLAB/Python• Prior experience in AI research projects• Knowledge of machine learning techniques• Good writing skills for project reports and publications Experience in Health sector projects |
| Nature of Duties | <ul style="list-style-type: none">• Recording and preprocessing EEG-fNIRS signals• Data management and analysis• Supporting machine learning model development• Assistance in project documentation, reports, and presentations |
| Age Limit | Not exceeding 35 years |
| Emoluments/Salary | ₹28,000/- plus 18% HRA per month (Total: ₹33,040/- Consolidated) |
| Duration | 30 months |
| Selection Process | Panel of recommended candidates will be shortlisted after a screening test followed by an interview. |
| How to Apply | The scanned copy of the application in the prescribed format (Annexure A) along with supporting documents (in a single PDF file) should be sent to the following email ID: prathmeshk@aiimsnagpur.edu.in or before 18th May 2025 . Candidate must also fill the mandatory Google form: https://forms.gle/sLStpzYrMC4aUwGd7 |

| | |
|---------------------------------|---|
| Brief about the project: | This project aims to develop an innovative Brain-Computer Interface system that can recognize covert/ imagined speech or thoughts using hybrid EEG and fNIRS signals. By integrating deep learning techniques, the system will facilitate communication for patients with motor speech impairments. This innovative technology has the potential to revolutionize patient-care interaction, especially in critical care and neurorehabilitation settings. |
|---------------------------------|---|

The shortlisted candidates will be called for an interview.

The date, time, and venue of the interview will be intimated by email only.

Important Notes

- All educational qualifications must be from a recognized board/university.
- Experience should preferably be from a government/recognized organization.
- No TA/DA will be provided for attending the interview.
- This is a contractual appointment for an externally funded project.
- The decision of the principal investigator will be final.

Whom to Contact

Dr. Prathamesh H Kamble

Associate Professor,

Department of Physiology,

AIIMS Nagpur

Mobile: 7350185295

Email: prathmeshk@aiimsnagpur.edu.in