

## **Research Assistant – Signal Processing in Neuroscience (SPIN) Lab, BMSIT**

**Position:** Research Assistant

SPINLab@BMSIT is seeking highly motivated Research Assistants (RA) to contribute to research in brain signal processing. You will be an integral part of our team, applying your technical expertise to analyse brain signals, develop advanced processing techniques, and contribute to the development of new brain computer interface technologies.

**Location:** SPIN Lab, A220, Department of ECE, BMS Institute of Technology and Management, Yelahanka, Bangalore

**About Our Research:** Our research group investigates the complex relationship between brain activity, thoughts, and EEG signals through advanced signal processing and machine learning techniques. We take a comprehensive approach, encompassing both fundamental research and practical applications, leading to the development of embedded hardware solutions for brain computer interfaces, diagnostic tools etc.

### **Responsibilities:**

**Brain Signal Data Acquisition:** Collect and preprocess brain signals such as EEG from human subjects using state-of-the-art equipment.

**Signal Processing:** Apply advanced techniques for signal denoising, artifact removal, feature extraction, and classification of brain signal data using advanced signal processing and machine learning techniques. Utilize cutting-edge machine learning and deep learning algorithms for pattern recognition, anomaly detection, and prediction in brain signal data.

**Documentation:** Contribute to the writing of research papers, reports, and presentations.

### **Qualifications:**

- Bachelor's or Master's degree in Computer Science and Engineering or allied branches, Electronics and Communication or allied branches.
- Proficiency in programming languages such as Python, MATLAB.
- Knowledge of signal processing, image processing, and machine learning principles is desirable.

**Salary:** Rs.22,000/- per month,

**Duration:** For a period of one year with an extension of one more year based on the performance.

**To Apply:** Please submit your CV, with a covering letter to [careers@bmsit.in](mailto:careers@bmsit.in), [saneesh@bmsit.n](mailto:saneesh@bmsit.n).