



- MTech
- BTech

**Positions Breakdown:**

**1. Focus on Signal Processing (2 minimum)**

◦ **Responsibilities:**

- Develop and optimize signal processing algorithms for quantitative susceptibility and conductivity mapping.
- Work on phase unwrapping, denoising, and image enhancement techniques for MR data.
- Analyze multi-echo data for precision mapping.
- Develop AI based methods

**Requirements:**

- Strong foundation in signal processing concepts.
- Proficiency in programming (MATLAB, Python, or similar).
- Knowledge of MRI data processing is a plus.

**2. Focus on Electronics (2 minimum)**

◦ **Responsibilities:**

- Assist in hardware-software integration for MRI signal acquisition systems.
- Work on simulations and testing of electronic systems supporting multi-echo gradient sequences.
- Support development of electronic interfaces for real-time data collection and processing.

◦ **Requirements:**

- Background in electronics systems, including circuit design and testing.



- Knowledge of embedded systems or related hardware tools.
- Experience with MATLAB/Simulink or similar platforms is advantageous.

**General Internship Benefits:**

- Exposure to cutting-edge research in medical imaging.
- Opportunity to work alongside experts in signal processing and electronics.
- Hands-on experience in a project with potential clinical and research impact.

**Application Process:**

- Ensure your qualifications match the criteria.
- Prepare a CV highlighting your relevant skills and academic background.
- Submit your application to the designated contact or platform associated with the project.

If you're interested in the intersection of medical imaging, electronics, and advanced signal processing, this is a great opportunity to gain practical experience!

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| Salary | Rs.25,000/- Per month (consolidated) |
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**How to Apply:**

Applications shall be submitted before 4:00 PM on-line latest by 15th December, 2024. The application can be had from [www.iiitmk.ac.in/careers](http://www.iiitmk.ac.in/careers). Applications received thereafter shall not be entertained. The candidates must bring all original certificates/testimonials at the time of interview. The date and time of the interview will be intimated on mobile/email. The candidates are, therefore, advised to check their email regularly after the last date of receipt of application.



## **OTHER TERMS & CONDITIONS**

1. The full-time contract appointment will be initially for a period of three months. However, the term may be extended further based on the performance and project requirements.
2. The candidate must ensure that he/she possesses the required qualifications and experience for the post.
3. If the documents submitted by any candidate are found incorrect/false at the time of the interview, his/her candidature will stand canceled. If any shortcomings are detected after appointment, his/her services are liable to be terminated.
4. IIITM-K has the right to reject the candidature of any candidate at any stage and the decision of IIITM-K will be final.
5. IIITM-K has the right to reject the entire selection/advertisement procedure at any stage and the decision of IIITM-K shall be final in this regard. Canvassing in any form will lead to disqualification.
6. No TA/DA shall be provided to the shortlisted candidates.

Director

\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

