

**ASSAM GOVERNMENT – IIT GUWAHATI HEALTHCARE FOUNDATION**

Assam Government – IITG Healthcare Foundation is a Section 8 company. Government of Assam has joined hands with IIT Guwahati to establish a cutting-edge R&D institution in health sciences and technology – **Assam Advanced Healthcare Innovation Institute (AAHII)**. AAHII, located within IIT Guwahati campus comprises of an R&D Block, Academic block and a Super-specialty hospital (500 beds) with ancillary facilities invites applications for the following vacancy:

Sl. No.	Name of the Position	No. of posts
1	Research Associate – Low-field MRI Metamaterial Development	1

Only the shortlisted candidates will be called for interview. No TA/DA will be paid for the purpose. Terms of Reference (ToR) for the aforesaid position are accessible at: <https://agihf.org/careers>. Online applications will be received till 25.06.2025 at [careers@agihf.org](mailto:careers@agihf.org).

**Sd/-**  
**Chief Operating Officer**  
**Assam Government – IITG Healthcare Foundation**

## **TERMS OF REFERENCE FOR THE POSITION OF RESEARCH ASSOCIATE, ASSAM GOVERNMENT IITG HEALTHCARE FOUNDATION**

**Position:** Research Associate – Low-field MRI Metamaterial Development

### **Qualification:**

Ph.D. in a relevant field or MTech with 3 years of experience. Undergraduate and postgraduate background in Electronics Engineering, Biomedical Engineering, or Physics/Engineering physics or any equivalent area with knowledge of electromagnetic theory.

### **Experience:**

#### Required:

- 1) Track record of simulation experience on CST/HFSS/COMSOL, experimental design, execution, and analysis.
- 2) Experience mentoring junior researchers and engaging in collaborative projects

#### Desired:

- 1) Knowledge of MRI physics
- 2) Experience in MRI Metamaterial development or relevant

### **Place of Duty:**

Assam Advanced Healthcare Innovation Institute (AAHII), IIT Guwahati campus

### **Reporting:**

Project Engineer shall work under the overall guidance and supervision of Chief Operating Officer, AGIHF and under the supervision of Dr. Debabrata Sikdar, IIT Guwahati.

### **Job Purpose:**

To lead and support laboratory-based R&D efforts in low-field MRI metamaterial development for MRI coils, within a collaborative research project at AAHII in association with IIT Guwahati. Individuals with eye on career advancement in MRI technology and research should apply.

### **Key responsibilities:**

- 1) Lead the design, execution, and analysis of MRI metamaterial development
- 2) Develop and test prototype systems related to MRI metamaterial and integration with MRI coils
- 3) Mentor junior team members and interns
- 4) Coordinate with clinical collaborators from AIIMS and other institutions
- 5) Organize and participate in technical discussions and review meetings
- 6) Support documentation for grant reporting and publications
- 7) Assist in preparing manuscripts and conference presentations

**Compensation:** As per industry standards. [Duration: 1 year, extendable based on performance and funding]