

Advertisement for JRF positions at IIT Hyderabad

Applications are invited for two positions of Junior Research Fellow (JRF) in a research project to be carried out at the Applied Magnetic Resonance Imaging science and Technology lab (AMRIT lab) of the Department of Biomedical Engineering, IIT Hyderabad.

Name of post	Junior Research Fellow
Project title	Development of advanced Magnetic Resonance Imaging (MRI) methods and hardware
PI	Dr. Jaladhar Neelavalli
Department	Biomedical Engineering
Fellowship	Rs. 37,000 per month + HRA (as per Govt. norm, if applicable)
No. of vacancies	2
Minimum Qualifications	B.E./B.Tech. in ECE/Electrical Engineering/Instrumentation Engineering/ Biomedical Engineering/Computer Science/Artificial Intelligence, or related disciplines from a recognised institute with minimum 70% Marks or 7.0 CGPA + Valid GATE Score OR M.E./M.Tech. in ECE/Electrical Engineering/Instrumentation Engineering/ Biomedical Engineering/Computer Science/Artificial Intelligence, or related disciplines from a recognised institute with minimum 70% Marks or 7.0 CGPA OR MSc in Physics or Chemistry from a recognised institute with minimum 70% Marks or 7.0 CGPA, along with a valid GATE score.
Desirable Qualifications	Candidates with one or more of the following skills are encouraged to apply: • Scientific computing, signal and image processing • Analog and digital circuit design • Python, C/C++, or MATLAB programming • VLSI design and digital integrated circuit design • Embedded systems, microcontroller, and FPGA programming • Deep learning frameworks such as PyTorch • Machine learning for medical imaging • Electromagnetic (EM) modeling and simulations Knowledge of MRI physics and image reconstruction is strongly desirable, but not necessary.
Duration	2 years, extendable by 1 additional year based on satisfactory performance and project requirements

Responsibilities

The selected candidate may be involved in:

- Development of electronic hardware for the ultra-low field MRI system.
- Development of software platforms for system control, data acquisition, and visualization.
- Development of deep learning-based image reconstruction and image enhancement techniques.
- Preparation of technical reports, publications, and patents arising from the project.

How to apply

Interested candidates who fulfil the eligibility criteria should apply by filling the form below.

<https://tinyurl.com/yc62zez4>

The online form will be open until suitable candidates are recruited.

Selection Procedure

Candidates will be shortlisted based on their academic record/achievements, and only shortlisted candidates will be intimated via e-mail for an interview with the selection committee.

Selection committee's decision would be final.

Please note that merely meeting the minimum criteria does not guarantee a call for an interview.

The selected candidate will be encouraged to register for the PhD program at IIT Hyderabad as per the institute's norms.