



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**  
**BIHTA PATNA-801106**  
**RESEARCH & DEVELOPMENT UNIT**

**ADVERTISEMENT NO: R&D/1267/DOI/502**

**DATED: 25.07.2025**

Project No: **R&D/SP/EE/DoI/2025-26/1267**

Applications are invited in the prescribed format only for the following assignment in a purely timebound research project undertaken in this institute.

1. (a) Name of the temporary assignment: Research Engineer  
(b) Number of Post: 1  
(c) Duration of the Post: Initially 1 year and can be extended up to 1 more year subject to satisfactory performance
2. (a) Name of the temporary assignment: Junior Research Fellows (JRF)  
(b) Number of Post: 2  
(c) Duration of the Post: Initially 1 year and can be extended up to 1 more year subject to satisfactory performance
3. (a) Name of the temporary assignment: Research Intern  
(b) Number of Post: 2  
(c) Duration of the Post: Initially 1 year and can be extended up to 1 more year subject to satisfactory performance

4. Name of the research project: Design and Optimization of Initial Access Procedure and Beam Management for 6G Networks Based on Artificial Intelligence and Machine Learning

5. Name of the sponsoring Agency: Telecom Technology Development Fund (TTDF), Department of Telecom (DoT), Government of India

6. Fellowship/Salary:

- (a) Research Engineer: Rs 75,000/- Plus 8% HRA as per rules per month
- (b) JRF: Rs 40,000/- Plus 8% HRA per month
- (c) Research Intern: Rs 25,000/- per month

7. Qualifications & Experience:

**(a) Research Engineer:** The candidate should hold a B.Tech degree in Electronics and Communication Engineering (ECE) and an M.Tech degree in ECE or Computer Science (CS) with a minimum of 60% marks or a CPI of 6.5, along with 4 to 5 years of research or relevant work experience. The upper age limit for applying is 35 years, with relaxations for SC/ST/OBC/Women/Persons with Disabilities (PwD) as per Government of India norms.

**Desirable Qualifications and Experience:**

- Research experience in AI/ML-based initial access and beam management for Beyond 5G and 6G networks
- Hands-on expertise in implementing algorithms on software-defined radios (SDRs), Strong background in developing and deploying deep learning/ machine learning models for wireless communication systems



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Candidates with relevant domain experience and a strong research profile will be given preference.

- (b) JRF:** Candidates must possess a B.Tech degree in Electronics and Communication Engineering (ECE) and an M.Tech degree in either ECE or Computer Science (CS), with a minimum of 60% marks or a CPI of 6.5. The upper age limit is 32 years, with relaxations applicable for SC/ST/OBC/Women/PwD candidates as per Government of India norms.

There are two categories of eligibility for the JRF position:

1. **JRF with GATE Qualification:** Candidates selected under this category may also be considered for Ph.D. admission under the Department of Electrical Engineering, subject to the rules of the institute.

A valid GATE score (not older than five years from the last date of application submission) in a relevant discipline is mandatory for this category.

2. **JRF without GATE Qualification:** Candidates who do not have a valid GATE score are also eligible to apply, but only for the JRF position.

**(c) Research Intern:** Candidates from the following backgrounds are eligible to apply:

- B.Tech in Electronics and Communication Engineering (ECE), Final-year B.Tech students in ECE, Final year M.Tech in ECE/Computer Science (CS)/Artificial Intelligence (AI), M.Tech Students in ECE/CS/AI. Candidates who have already completed their B.Tech or M.Tech degrees must have secured a minimum of 80% marks or a CPI of 8.5.

Eligible and shortlisted candidates are invited to attend the **online interview**. **The tentative date of the online interview is in the last week of August 2025**. The interview will be conducted via an online link, which will be shared with the shortlisted candidates by the Department of Electrical Engineering, IIT Patna, Bihta, Patna – 801106.

All eligible candidates are required to **email a single PDF file** merging the following documents in the specified order to **6gcfp.dot.iitp@gmail.com**:

1. An updated resume.
2. Soft copies of all supporting documents (including certificates, marksheets, and degree certificates) arranged in descending order.
3. The duly filled application form (**RD-M003**) attached with this advertisement below.

Please ensure all documents are submitted well in advance of the interview date. **The deadline for sending the requested documents is August 14, 2025 by 11:59 PM**. For any query contact Investigator: **Dr. Preetam Kumar, Professor, Dept. of Electrical Engineering, IIT Patna, Email: 6gcfp.dot.iitp@gmail.com**

**Asst. Registrar**

Copy to:

1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file



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**FORMAT OF APPLICATION FOR: RE/JRF/RI**

<b>Name &amp; Address</b>  <b>Including email id and Phone no. (for Correspondence)</b>	<b>Category</b>  (GEN/OBC/SC/S T/PD)	<b>DOB</b>  dd/ mm/yy	<b>Professional Exam. (GATE/CSIR-NET, etc) &amp; Validity</b>
NAME IN CAPITAL Address:          Phone: Email:			
<b>Educational Qualification</b>			
<b>Institute/ Board</b>	<b>Exam Passed</b>	<b>Year of Passing</b>	<b>% of Marks/CPI</b>
	10 <sup>th</sup> Class		
	12 <sup>th</sup> Class		
	Bachelors (B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters (M.Sc/M.Tech/M.E/MCA/ MA) or equivalent		

<b>Qualifying degree</b>	<b>Degree/ major/Specialization</b>
(B.Sc/B.Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
Others	

Signature of applicant

Date:

Place: