



## Job Announcement of 5G Adv./6G Project-IITH

5G Adv./6G Project-IITH is looking to recruit ECE, EE & CSE graduates in "**Wireless Communications, 5G**" for the "**Project Associate- PHY Engineer**".

We are looking to recruit ECE, EE, and CSE students for our 5G/NB IoT research and development profiles.

### **Students should have the following mandatory skills:**

- Should be good at C/C++ programming
- Should have good aptitude skills

### **The following skills are optional:**

- Signal processing & communication
- Operating systems
- Matlab
- VLSI or Embedded

### **Other key points:**

- Selected students/engineers will be first trained for their respective profiles on various skills.
- They will enjoy all the campus facilities offered to any other staff at IIT Hyderabad like playgrounds, mess, library, culture events etc.
- We encourage students to enhance their skills. Some of our engineers at the 5G testbed physically attend IIT-Hyderabad classes to upgrade their skill sets.

**How to Apply:** If meet the eligibility criteria and interested about this opportunity, please apply through the Training & Placement Portal (<https://tpcrt.rf.gd>) by **March 12, 2024, 3:00PM**.

**Go through the next pages...**

Sd/-

T & P Office

**Job Description:****The Role -Project Associate- PHY Engineer****Industry: -Wireless communication, 5G****Organization: 5G /6G Project -IIT Hyderabad****Required Expertise:**

- Development of 5G-NR PHY algorithms
- Perform simulations and do 3rd party verification
- Development of optimized processor specific algorithms
- Design end-to-end integrated systems using low level sub-systems
- Perform system verification, code coverage, functional coverage analysis
- Familiar with C/C++ programming.
- Knowledge of high-level scripting languages such as MATLAB, communication concepts.
- Familiarity with intel intrinsic, TI-DSP, operating systems is a plus.
- Awareness of operating system concepts, fundamentals of processor architecture.
- Experience in OS, Signal Processing, Matlab, and multi-threading would be considered favorable.

**Related Education & Experience**

- B.Tech/M.Tech/M.E in Electrical communication or related field from reputed institution

**About us:****For more details please visit:** <http://5g.iith.ac.in/>

IIT Hyderabad in collaboration with top Indian institutes including IITM, CEWIT, IITD, IITK, IISC and SAMEER is building the largest 5G testbed of the country, with the support of Department of Telecommunications (DoT) Govt. of India. This project will create a 5G prototype and testing platform that will be developed under the guidance of IIT-H faculty.

The project will deliver an end-to-end 5G testbed comprising 5G BS and UE nodes that support enhanced mobile broadband (eMBB), Ultra low latency communication (URLLC), and massive MTC including NB IoT services. The operating frequently includes both sub 6 GHz and mmwave frequencies. The system will exceed IMT 2020 5G performance requirements including Low Mobility Large Cell (i.e., LMLC) targets introduced by India at ITU.

The 'Indigenous 5G Testbed' project is a long-term effort with a team of 100+ researchers/engineers based out of IIT-H campus.

**Here are some references for company:****Video :** <https://www.youtube.com/watch?v=gVPPAgZhkeQ>**Video :** <https://www.youtube.com/watch?v=fMwNkL1G8U8><https://www.thehindu.com/news/national/tehrangana/iit-hyderabad-wisig-unveil-5g-infra-solutions/article65073745.ece><https://www.thehindubusinessline.com/info-tech/iit-hyderabad-wisig-achieves-milestone-in-5g-research/article65073880.ece>

