Vacancies: 5G/6G Research and System Simulations

We are seeking applications for multiple openings at Postdoc and Research Assistant levels. The main responsibility for these positions is to conduct research, system-level and link-level simulations, and performance analyses for next-generation mobile wireless networks. The topics of interest include 5G technologies, reconfigurable intelligent surfaces, joint communications and sensing, and sidelink communications.

Skills Preferred

- Strong fundamentals in digital and wireless communications
- Proficiency in Python, C/C++, and/or Matlab
- Experience in deep learning techniques and tools, e.g., Tensorflow and Keras.
- Highly motivated and self-driven with the ability to quickly learn on the fly.

Additional skills that strengthen the application: Prior experience in running link-level and system-level simulations will be an added advantage. Prior exposure to single and multi-user MIMO techniques, beamforming, receiver algorithms, resource allocation, or sensing and positioning.

Experience Required
- For Research Assistants, B.Tech, M.Tech. or MS, with a solid background in Digital Communications and Signal processing, and/or Machine Learning/Deep Learning techniques.
- For Postdocs, a strong publication record with a solid background in Wireless Communications and Signal processing, and/or Machine Learning/Deep Learning techniques.
- Programming in C, C++, or Matlab is essential.

Duration
- We are looking for candidates who can start as soon as possible.
- The minimum duration is one year, extendable up to 3 years (after a probation of 4 months)

To apply, submit your application package that includes

1. Cover letter describing your motivation and suitability for the position
2. Two-page resume
3. Github link, if available
4. For Postdoc applicants, include your publication record along with the contact details of two referees

using the one of the following links:

Postdoc applicants: https://forms.gle/EYtpasD7hyF5LVG67

Research Assistant applicants: https://forms.gle/dqcrwjKQw22LLRdQ6

For further information you may email spchepuri AT iisc.ac.in and nbmehta AT iisc.ac.in with "**5G/6G Research and System Simulations openings**" in the subject line.