

4 Beyond 5G/6G network infrastructures

Abstract

Digital Infrastructures as the future Internet, constitutes the cornerstone of the digital transformation of our society. Although some important work has been done on these topics, the stringent need for a scientific instrument, a test platform to support the research in this domain is an urgent concern. SLICES ambitions to provide a European-wide test platform, providing advanced compute, storage and network components, interconnected by dedicated high-speed links. This will be the main experimental collaborative instrument for researchers at the European level, to explore and push further, the envelope of the future Internet.

Topic 4.1: Beyond-5G/6G pervasive networks in the SLICES italian node

We are looking for a post-doc working on two main areas. On the one hand, the post-doc will work in the team currently developing the CNR site of the SLICES infrastructure. This will be a complex infrastructure supporting experimentally-driven research on the following topics (i) human-centric beyond-5G pervasive networks; (ii) advanced end-to-end slicing; (iii) vehicular networks; (iv) edge computing; (v) decentralised AI in pervasive environments. On the other hand, the post-doc will exploit the early versions of the infrastructure to develop advanced research in one of the above topics.

The post-doc will work in the framework of the [SLICES](#) European project, and therefore will be deeply involved in discussions and development of technical solutions to interconnect the SLICES CNR site with the other nodes and sites of SLICES at the European level.

Candidate profile

Ideal candidates should have or about to obtain a PhD degree in Computer Science, Computer Engineering, Communications Engineering, or closely related disciplines, and a proven track record of excellent publications in relevant top-tier conferences and journals (Post-doc level). Experimentally-driven approaches and experience on the development and use of state-of-art 5G technical solutions for network virtualisation, management and programmability will be particularly appreciated.

Good written and spoken communication skills in English are required.

Contacts

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