

# Call For Research Projects Proposals (CFP-8)

Submission deadline: December 31<sup>th</sup>, 2021



**The National Telecom Regulatory Authority (NTRA) Provides Technical and Financial Support for Promising ICT Applied Research projects**

## Research Areas

The NTRA supports research in the telecommunications field in addition to other relevant fields. R&D is aligned with NTRA strategy designed to include academic industrial development in the telecommunication industry hence creating better services and developing solution to key chronic challenges facing ICT industry nowadays. **The funded projects should adopt prototypes as a final deliverable.**

The topics listed here will receive higher priorities. The NTRA encourages applicants to submit proposals in the following topics:

### Recent Trends in Telecommunications

- **The Path Towards 5G** (CRAN, XHAUL, Exposure limits, advanced MIMO and beamforming techniques...)
- **Rural Connectivity** (advanced techniques for rural coverage, IRS, HAPs, super cells, utility networks, backhauling, ...)
- **Wireless Optical Communication** (Radio over Fiber, Free Space Optics, SONET, Li-Fi, VLC, ...)
- **Satellite Communications** (LEO Based Services, CubeSat, GIS, ...)

### Digital Services & Smart Communities

- **Smart Water Managements (SWM).**
- **Smart Homes/Cities.**
- **Intelligent Transportation Systems (ITS).**
- **Smart Grids/Meters.**
- **Agriculture and Irrigation.**
- **Health.**

### Frontier Technologies

- **AI, IoT, Big data, Blockchain in Telecoms.**
- **Automation & Robotics and Embedded systems.**
- **Augmented Reality.**

Submit your proposal at [rd.projects@tra.gov.eg](mailto:rd.projects@tra.gov.eg)

The NTRA's R&D department was established in 2007 with key objectives of supporting national research projects and activities in the area of telecommunications, watching for and keeping pace with emerging technologies and applications, and aiming to bridge the gap between academic activities and technical developments from one-perspective and policy visions and real market needs from the other.

This vision entails the interaction and collaboration with a wide variety of academic and industry stakeholders with the goal of advancing science and technology in key strategic domains that serve the Egyptian ICT sector at large, and contribute to the development of solutions that can solve key chronic challenges facing the ICT industry nowadays.