



6G Research Group (6GRG)

University of Technology and Applied Sciences (UTAS)-Muscat
Muscat, Sultanate of Oman

About the Research Group

The 6G Research Group (6GRG) has been established as the first officially registered research group of the University of Technology and Applied Sciences, Oman. Initiated in October 2024 as the first academic research entity focused on 6G Telecommunications in the Sultanate of Oman, the group has grown through dedicated research focus teams bringing together experienced academic staff, talented students and external research partners. 6GRG focuses on emerging 6G communication technologies and aims to develop top-quality, internationally relevant research that also responds to the Sultanate of Oman's national priorities. Its direction is shaped by Oman Vision 2040 research priorities and the UTAS 2026-2030 Strategic Plan, with particular emphasis on innovation, national capability building, industry engagement and meaningful research impact.

Research Group Leader



Dr. Mohammadreza Behjati

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Senior Lecturer, Electronics and Communication Engineering, UTAS-Muscat

Research interests: 6G Wireless Networks, AI-Enabled Communications, Integrated Sensing and Communication, Advanced Radio Resource Management, Network Intelligence, Deep Learning Algorithms and Next-Generation Connectivity

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Vision & Mission

Vision

To become a recognized research hub for smart, secure and sustainable 6G Telecommunications, contributing to worldwide knowledge economy and to the international development of future communication systems.

Mission

To deliver high-quality 6G research, nurture young researchers, build strong academic and industry partnerships, and translate advanced ideas into publications, projects, prototypes and practical outcomes with international prospects.

Research Focus & Strategic Alignment

Core Research Focus Areas

- 1) AI-Native and Smart 6G Networks
- 2) Integrated Sensing and Communication (ISAC)
- 3) THz and sub-THz and advanced radio technologies
- 4) Non-terrestrial and space-integrated communications
- 5) Network connectivity, resilience and sustainable communications

Alignment with Research Strategies

- 1) Oman Vision 2040 Research and Innovation Priorities
- 2) UTAS 2026-2030 Strategic Plan
- 3) Development of national research capability and young researchers
- 4) Collaboration with telecoms operators, technology companies and external research partners
- 5) Research outputs with measurable academic, technological and social impact