



Center	Interdisciplinary Research Center for Communication Systems and Sensing
Job Title	Post-Doctoral Fellow
Job Description	The center is inviting applications for Postdoctoral Research Positions from outstanding candidates wit strong expertise and in-depth knowledge in one or more of the following advanced research areas:  Communication Systems  Next-generation mobile networks and future wireless technologies Green and energy-efficient communication systems Sustainable and reliable communications for autonomous unmanned vehicles (AUVs) Wireless technologies including millimeter-wave, terahertz, optical, and near-field communication Reconfigurable Intelligent Surfaces (RIS) for programmable wireless environments Al and machine learning applications to enhance communication system performance Intelligent resource allocation, interference management, and link adaptation Digital Twins for Communication Systems ORAN: Open Access Radio Networks  Radar and Localization Detection and tracking of drones/unmanned aerial vehicles (UAVs) Radar systems for accurate drone localization and threat mitigation Channel modeling and real-world propagation measurements Beamforming optimization for high-resolution radar and communication systems Channel modeling and real-world propagation measurements Beamforming optimization for high-resolution radar and communication systems Channel modeling and passification for Arrival (ToA), Time Difference of Arrival (TDA), Received Signal Strength (RSS), and Direction of Arrival (DoA) Navigation and positioning using satellite and terrestrial systems Software Defined Radio  Signal Processing Advanced optimization techniques for signal modeling and enhancement Deep learning-based signal classification, prediction, and analysis Adaptive estimation, equalization, and tracking algorithms Compressed sensing and sparse reconstruction methods Sensor array processing for spatial filtering and source separation Image processing object recognition, and real-time computer vision applications  Bio-sensing and Health Monitoring Remote and contactless sensing solutions IoT-based wearable and embedded sensor networks for health

Job Responsibility	<ul> <li>Contribute to the ongoing research projects in the center.</li> <li>Conduct basic and applied research.</li> <li>Develop advanced products and technology.</li> <li>Publish findings or creative work.</li> <li>Write research proposals.</li> <li>Teaching courses</li> <li>Contribute to the center activities</li> </ul>
Qualification	<ol> <li>A Ph.D. degree in Electrical Engineering, Signal Processing, Communication Systems, Wireless Communication, Artificial Intelligence, Electromagnetics, Electronics, or a related field from a reputable institution.</li> <li>In-depth knowledge and a strong record of publications in one or more areas described in the Job Description part.</li> </ol>