Position Title: Radio Communication Engineer Trainee			
	Reports to	Department	Location
Rodolfo Guidi		Applied Electromagnetics BU	Pisa
Posit	ion Mission		
trainee the si	e who will collaborate with the Un	it by carrying out analysis and develop ent, within the context of MerMec I	g for a Radio Communication Enginee ment tasks at both system-level and or Engineering's activities in the Radio
Resp	onsibilities		
• • • •	functions Analyzing and develop function prototyping and subsequent C/ Contributing to system-level de Carring out testing of communi	a and component-level analyses of a nal blocks and algorithms for radio com (C++ development esigns of radio communication systems ication systems or components n the field of both terrestrial and satelling	nmunication, typically by Matlab/Octave s and networks
Tech	nical Skills, Qualifications		
•	 Master's degree in Telecommunication Engineering Knowledge of the currently most established radio communication standards both in the broadcast and Rad Access Network (RAN) domains (e.g. DVB-T/T2, DVB-S/S2/S2X/RCS2, GSM, UMTS, LTE, IEEE 802.11. with special focus on their OSI PHY-layer DSP functions, as well as of the most common digital formats for radio transmission Knowledge of the key components and functions of a transmission system, with specific focus on Digit Signal Processing (DSP) for radiocommunication and on the most widely established modulation and codir 		
•	schemes Architectural knowledge of the currently active standards for Radio Access Networks (RANs), namely GSM LTE, NR, with special focus on OSI L1 (PHY) and L2 (MAC) functions		
• • • • •	Basic or intermediate understa symmetric and asymmetric key Good proficiency in both spoke Knowledge of the Windows op	ed communication networks OS (experience with a few different Li anding of the most common network v encryption, message authentication, (en and written English language erating system and office automation to f Visual Studio Suite, .Net Framework	security principles and practices (e.g OTP-based MFA, intrusion detection) ools



- \boxtimes Results Orientation
- \boxtimes Initiative
- ⊠ Innovation
- ⊠ Partnering
- □ Planning and organization
- $\hfill\square$ Leadership and development of others
- ⊠ Efficient communication