| Reports to   | Department   | Location  |
|--|--|---|
|  | Applied Electromagnetics BU –<br>Radar Systems Team  | Pisa – San Piero a Grado  |
| Position Mission   |  |   |
| The Applied Electromagnetics Busines<br>Radar Systems team. The team is act<br>Test, Radar Signal and Image Process  | ive in the following fields: Radar Syst  | ems Analysis, Simulation, Design and  |
| Activities   |  |   |
| <ul> <li>environment;</li> <li>Analysis of radar data collected possible improvements in the p</li> <li>Writing of technical document</li> </ul>                                       | te with the MerMec Engineering staff in<br>age processing algorithms and develo<br>d during the measurement campaigns<br>processing algorithms to optimize syste<br>ts including: Requirements and Archi<br>cuments, Radar algorithms design doo | pment of prototypal code in a MatLa<br>on different radar systems, identifyin<br>m performance;<br>tecture specification documents, Tes |
| Definition and execution of reperformance and the compliant  | adar systems tests and measureme<br>ce with the requirements, identifying th   |   |
| Technical Skills, Qualifications   |  |   |
| Good proficiency in both spoke   | munications Engineering, Electronics I<br>n and written English language;  |   |
| Basic knowledge of systems e   | ems performance analysis and of signa<br>engineering techniques (mathematical<br>ation of system requirements and arch   | modeling, analysis and simulation of  |
| <ul> <li>Basic knowledge of the Matlal fixed point toolbox);</li> <li>The following are considered values.</li> </ul>  | b development and prototyping enviro   | nment (signal processing toolbox an   |
| <ul> <li>Master's Degree or door<br/>Physics;</li> </ul>   | ctoral student in Telecommunications E   |   |
| <ul> <li>Knowledge of laborator</li> <li>Knowledge of C/C++, 0</li> </ul>  | ition and in the execution of tests on ra<br>ry equipment (Oscilloscope, Spectrum<br>C#, Python, Java, Fortran and experier<br>, LabView or similar tools;   | Analyzer, VNA etc.);  |
| <ul> <li>Experience in RAMS a</li> <li>Experience with system</li> </ul>   | nalyses and with Relex, Isograph Relians in the railway sector;<br>reign languages besides English, both   | •   |
| <ul> <li>The following personal skills are require</li> <li>Good analytical skills and proble</li> <li>Ability to communicate effective</li> <li>Ability to work in a team;</li> </ul> |  | e drafting of technical documentation;  |

Required Soft Skills (select the skills the candidate must have from the list below)



 $\boxtimes$  Results Orientation

 $\boxtimes$  Initiative

 $\boxtimes$  Innovation

⊠ Partnering

□ Planning and organization

 $\Box$  Leadership and development of others

⊠ Efficient communication