

Position Title: Applied Electromagnetics Engineer Trainee

| Reports to | Department | Location |
|---------------|-----------------------------|----------|
| Rodolfo Guidi | Applied Electromagnetics BU | Pisa |

Position Mission

The Applied Electromagnetics Business Unit of MerMec Engineering is looking for a trainee to be included in the team that carries out analysis and development activities in the fields of Antenna Design, Electromagnetic Compatibility, Microwave Circuit Design

Activities

The successful candidate will collaborate with MerMec Engineering staff in:

- Carry out targeted system and component-level analyses of antenna systems with single or multiple radiating elements
- Use electromagnetic CAD and simulation SW to design electromagnetic structures/systems and/or assess their performance
- Carry out EMC testing and measurements of both active and passive systems generating or receiving EM energy

Technical Skills, Qualifications

- Master's degree in Telecommunication Engineering or Physics with a curriculum specifically oriented towards Applied Electromagnetics disciplines and problems
- A PhD degree in a telecommunication-related field/discipline is a desirable plus
- Knowledge of the currently most established electromagnetic simulation techniques (e.g. full-wave and asymptotic techniques, MoM, FDTD, GTD, raytracing ...)
- Knowledge of the commercial electromagnetic simulation SW (HFSS, CST)
- Good architectural knowledge and basic understanding of the key components and functions of radio communication and radar systems
- Good knowledge of Unix/Linux OS (experience with a few different Linux distributions is a plus)
- Good proficiency in both spoken and written English language
- Knowledge of the Windows operating system and office automation tools

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

- Results Orientation
- Initiative
- Innovation
- Partnering
- Planning and organization
- Leadership and development of others
- Efficient communication