



RF Simulation Engineer - Job Description

Introduction

Radio Design are world leaders in the design and manufacture of products for the commercial wireless infrastructure market. Exporting around the globe, our customer base includes the world's leading mobile network operators and OEMs.

The company is experiencing significant growth and is looking to recruit an exceptional candidate to its first class engineering team. The successful candidate will as a minimum have graduated with an excellent degree, preferably first class, in Electronic Engineering, Physics, Mathematics or a closely related discipline. Applications from candidates at the PhD and postdoctoral level are strongly encouraged.

The ideal candidate will have the aptitude for and keen interest in RF engineering and related mathematical coding techniques while possessing the intelligence and enthusiasm to learn a wide range of skills and knowledge at Radio Design. On the job training will be provided through the company's mentoring scheme.

Key Aspects of Role

The following activities are key to the role:

- Mathematical modelling of RF and microwave circuits, in particular filter networks
- Development of techniques to synthesise and optimise filter networks
- Responsibility for the development of modelling software
- RF filter design including air cavity combline filters
- Use of electromagnetism modelling tools (e.g. CST, HFSS)
- Working within a multidisciplinary engineering team delivering projects within agreed timescales

Requirements

Candidates should be able to demonstrate capability in a number of the following areas:

- Strong mathematical skills including complex analysis
- Coding of numerical algorithms
- Working knowledge of C++
- Development of graphical user interfaces
- In depth knowledge of microwave and RF circuit theory, preferably with expertise in filter theory
- Theory of electromagnetism
- Use electromagnetic simulators and / or microwave circuit simulators

Salary

Radio Design offers a competitive package.

Contact

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