

Enterprise Control Systems Ltd

Job Description Form

Job Description

Job Title:	Principal RF Design Engineer
Department/Location:	Engineering Dept ECS Technology Park
Reports to:	Engineering director
Hours of work:	40 hours a week
Summary of Position:	Enterprise Control Systems Ltd is recruiting a Principal RF Design Engineer to join their existing engineering team

Primary Responsibilities

RF system architecture and circuit design	linear high power wide band RF amplifiers up to 200watts using for example, GaN and LD MOS technology
RF simulation using large and small signal models	Design of linear high power wide band RF amplifiers up to 200watts
Design of associated DC supplies including switch mode power supplies (SMPS) and DC sequencing circuitry for power amplifiers.	Design of up convertors and down convertors. Knowledge of direct modulation and demodulation methods (desirable)
PCB and mechanical layout	Design of filters and antennas (desirable)

Person Specification

Qualifications & Training	Degree qualification in an engineering discipline
Previous Work Experience	10 years relevant experience as a design engineer
Personal Qualities & Attitude	A self-starter, self-motivated and able to produce results under pressure. Excellent verbal and written communication, interpersonal and inter-departmental skills. Willingness to take instruction and to contribute ideas in a team environment. Interacting with internal employees, clients and colleagues in a professional and timely manner

Competencies required for the job

Design experience and a thorough understanding of RF communication systems/products.
Practical experience of testing prototype RF circuitry using standard RF laboratory equipment
Proven track record using Microwave Office
PCB design layout experience
Experience in 3D mechanical design (desirable)
Excellent knowledge of the latest RF components and technologies.
Excellent verbal and written communication, interpersonal and interdepartmental skills.
Good understanding of designing linear RF systems
Good understanding of digital modulation techniques particularly COFDM
Able to develop initial ideas and prototype them quickly
Provide documentation such that testing can be done effectively by others for production use.
Experience of design in the defence or aerospace sector

Note: This job description is not exhaustive and will be subject to periodic review. It may be amended to meet the changing needs of the business. The post-holder will be expected to participate in this process and we would aim to reach agreement on any changes