

**Senior Signal Processing & Modem Development Engineer
Job Specification**

Job Title:	Senior Signal Processing & Modem Development Engineer
Job Reference:	ENG.PSP.011
Location:	Welwyn Garden City
Type of Role:	<p>Our company works in Satellite Communications Equipment Design & Development. Our team develops modems and other equipment to receive, process, analyse and send RF communications. This includes development of satellite-borne communications equipment.</p> <p>We are seeking a senior engineer to take ownership of our modem specifications and modelling as part of a development team. This could be an opportunity for someone with solid experience and a passion for digital signal processing to take technical ownership of an exciting area of technology within the company.</p>
Key Objectives:	<p>Specification, modelling and simulation of RF modems.</p> <p>Participate in development and maintenance/enhancement of software defined radio products.</p> <p>Definition of air-interfaces including ability to customise existing and standard air interfaces.</p> <p>Thereby to support development, integration and validation of FPGA SoC solutions for use in satellite communications applications including terminals and test tools.</p>
Responsibilities:	<ul style="list-style-type: none"> • Work with system requirements to identify and define appropriate air-interfaces. • Design RF modems using existing processing blocks and specification of new blocks. • Use modelling and simulation tools to define, test and refine specifications. • Produce or validate bit-correct simulations for the modems. • Support or carry out modem development in VHDL or software; troubleshoot development issues. • Work as part of a small focussed team to deliver full stack solutions.
Salary	<ul style="list-style-type: none"> • Circa £60,000 dependent on experience) plus benefits