Job Title: RF Design Engineer

Reports to: Sensors Manager

Location: Dorchester

Scope:

Within the sensors hardware team, the RF Design Engineer will be responsible for the design and development of electronic circuitry to support Precision Acoustics' product development. With responsibility for the design, test and integration of a variety of RF circuits spanning ultrasonic frequencies in the kHz to MHz range. The role will also involve liaising with internal teams within the business in addition to suppliers.

Key Responsibilities:

- Design and development of functional circuits within the ultrasonic signal chain. Areas of interest include small signal buffer pre-amplifiers, RF power amplifiers and DDS circuits for source signal generation.
- Electrical and acoustic testing of ultrasound sensors.
- To support the sensors team in delivery of products and services.
- Use of electrical test equipment; Vector Network Analyzer.
- Use of acoustic measurement equipment: oscilloscopes, hydrophones, ultrasound scanning tanks, radiation force balances.
- Supporting internal teams including the Research, Production and Calibration teams within the business.
- Liaise with external contacts including customers and suppliers.
- Liaise with internal teams to resolve internal (PA) problems as required.
- Record keeping and procedure documentation.
- ISO; working to all ISO processes.
- H&S; working to health & safety standards.
- Supporting and working towards the Company vision and values.

Essential experience and competencies

- Minimum 3 years industry experience in an RF related role.
- Ability to communicate design concepts to members of an interdisciplinary team.
- Degree qualified or higher, ideally within an electronic engineering discipline.
- Evidence of RF circuit design, board layout, implementation and fabrication.
- Ability to test and diagnose hardware problems using standard and specialist test equipment such as VNAs.
- Good time management and organisational skills.
- Able to work under own initiative and with a high attention to detail.
- Commitment to professional development and self learning.

Desirable Experience and Qualities

- Able to demonstrate an aptitude for RF electronics and circuit design.
- Familiarities with impedance matching and Smith chart analysis
- Understanding of ultrasound