



# Development Engineer

## Job Description

<b>Role</b>	Development Engineer
<b>Commitment</b>	Full-time role
<b>Salary</b>	Competitive package dependent on experience, including Pension
<b>Employer</b>	Ionix Advanced Technologies Ltd. (www.ionix.at)
<b>Reports to</b>	Development Director
<b>Location</b>	Ionix's development and manufacturing activities are based in Huddersfield, West Yorkshire. UK, easily accessible from Leeds, Manchester and Sheffield.

### Summary:

Ionix Advanced Technologies specialises in high performance, extreme environment piezoelectric devices, systems and materials, offering a range of sensors, actuators and transducer devices based on its novel piezoelectric materials, with applications in areas such as non-destructive testing/evaluation (NDT/E) condition monitoring and flow measurement in demanding environments.

Piezoelectric materials are used in a vast and rapidly expanding range of actuators and sensors. They are the irreplaceable heart of systems such as medical ultrasound imaging, non-destructive testing (NDT), energy harvesting and SONAR comprising a \$15bn annual market. Ionix has developed novel range of high temperature piezoelectric materials, which can operate in extreme environments in excess of 500 °C and with which opens the opportunity to a whole host of new high temperature sensing technologies.

### Purpose:

Ionix is currently looking for product Development Engineer who will be a key contributor to the design and production team, responsible for devising and implementing new extreme environment piezoelectric transducers, sensors and systems. You will work closely with Materials, Acoustic and Electro-mechanical Engineers to drive the development of client demands into prototypes that will see service in Aerospace, Automotive, Nuclear, Manufacturing, Plant, Process Control and Oil & Gas sectors.

Able to demonstrate relevant experience in research/design, assembly, testing, production or manufacturing, you should have an ability to work to deadlines with a flexible approach to the varied tasks required of the role.

Applicants must have the right to live and work in the UK.

To apply for this role, please send your CV and covering letter to [careers@ionix.at](mailto:careers@ionix.at) with the reference "DE122020"



## Responsibilities:

- Manage and contribute to projects to develop Ionix sensor & system products for customers across market sectors.
- Design and produce technical drawings of mechanical components and assemblies of devices using 2D and 3D design tools.
- Assembly, testing and characterisation of sensor assemblies, by a range of acoustic, electrical and mechanical means.
- Liaise with suppliers to resolve issues and ensure product or project requirements are met.
- Contribute to the design and prototyping of novel sensors to specification, including producing risk register, timelines, and bill-of-materials.
- To provide technical advice and support the business development process, working with sales and technical colleagues to achieve the collective commercial goals of the business.
- Present progress and feedback from development activities to technical and commercial colleagues to support product development.

## The Candidate

### *Essential skills and personal attributes:*

- A degree in Science or Engineering, or at least 3 years' experience in research, design, product development or manufacturing.
- Demonstrable understanding and knowledge of modern Computer Aided Design ie., Solidworks and how to use the systems effectively and efficiently to design products.
- Knowledge of manufacturing techniques, assembly, and applicability to designs.
- Experience of working under a quality management system, including documentation control, change and configuration management.
- Potential to contribute to new device ideas through proven analytical thinking.
- Hands-on approach to prototyping, testing and characterisation.
- Good communication skills to articulate aspects of development ideas and concepts to other engineering disciplines.
- Entrepreneurial, innovative and resourceful – able to generate new ideas, with a can-do attitude
- Able to work independently to meet deadlines within a small team, working in a dynamic SME environment.
- Comfortable helping with any tasks and learning new skills in other engineering areas.

### *Desirable skills and attributes (but not essential)*

- Project management skills and experience of successful project delivery.
- Knowledge of analogue instrumentation, sensors and monitoring system products within the Oil & Gas, Energy and Process Control sectors.
- Experience of FEA analysis or simulation tools, particularly ultrasonics, ie., OnScale, COMSOL etc
- Experience of electronics, embedded software and/or digital signal processing.
- Experience working within an ISO 9001 accredited environment.
- Knowledge of intrinsically safe design principles.

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