



## Mechanical Design Engineer

IDEX is recruiting additional product development and engineering roles in the UK to further expand its team designing Biometrics system solutions for the Cards and IOT markets. The IDEX strategy is to expand its product portfolio and eco-system to service global top tier Card and IOT customers. We are looking for a Mechanical Design Engineer to drive the mechanical design, modelling and simulation of our biometric fingerprint modules.

- Tasks and responsibilities:**
- Work within a fast moving product design team to develop cutting edge biometric sensor modules based on IDEX fingerprint sensing technology
  - Generate detailed mechanical designs using 2D & 3D design software
  - Optimise the mechanical designs to meet specifications and deliver the expected yield, reliability and cost targets
  - Analyse the mechanical system using Finite Element Analysis / Modelling (FEA /FEM) tools and techniques
  - Provide innovative solutions to design and manufacturing challenges
  - Liaise with the IDEX team, customers and manufacturing partners at all levels and across many product platforms
  - Support the management of the design configuration, details and documentation through use of the ARENA Product Lifecycle Management (PLM) System

- Experience:**
- A highly successful track record in mechanical design of complex components, parts, mechanisms and devices for a broad range of markets
  - Mechanical design experience for biometrics devices, MEMS sensors, or other small form factor multi-chip modules is highly desirable
  - A track record of designing for cost and manufacturability while meeting functional, aesthetic, ergonomic, and reliability requirements
  - A thorough understanding of leading edge mechanical design processes, standards, and methodologies
  - Expert in 2D and 3D mechanical design and simulation using software such as AutoCAD, Inventor, Pro-E, Solidworks, Abaqus, Ansys etc.
  - Finite Element Analysis for modelling of stress, strain, warpage, thermal effects.
  - Experience in the mechanical design of complex electronic assemblies comprising printed circuit substrates and semiconductor devices with a range of packaging technologies
  - Experience and ability to work closely with prototype and volume manufacturers to optimize DFM while achieving function, reliability and aesthetics
  - Strong background in materials and process engineering to allow successful combination of materials and design for ease of manufacturing at low cost and high yield, producing robust and highly reliable products
  - Understanding of mechanical interfaces and surfaces including corrosion resistance, adhesion promotion, surface finishes, solderability, etc.
  - Detailed understanding and experience of PLM systems (e.g. ARENA), to include, system administration, part number creation, BOM creation, ECR, PRO process and document issues to manufacturing partners
  - Knowledge of requirements for compliance with ISO9001 quality systems

- Education:**
- Degree in Mechanical Engineering
  - Alternative qualifications may be considered based on experience

- Personal capabilities:**
- Able to manage time and priorities to support multiple projects
  - Possess a passion for best-in-class product development
  - Driven; able to work independently; dependable and able to deliver work to deadlines
  - Flexible to work on new projects and in new areas of the business as required
  - Enjoys responsibility for a diverse portfolio of projects and assignments

**Potential:** IDEX is a pioneering company in fingerprint sensing technology. We are technically advanced in our field. The organisation is small and compact, and we have informal and stimulating work environment. There is a spectrum of challenges and you will have an opportunity to grow with us.

**Salary:** Negotiable

**Work place:** South East England (M3-M4 Corridor)

**Travel activity:** International travel required

**IDEX ASA:** IDEX ASA specializes in fingerprint imaging and recognition technology. The company has a strong patent portfolio consisting of more than 25 patent families including more than 215 granted patents, as well as cross licenses with Apple.

IDEX has a highly competitive product road map including swipe sensors, touch sensors. The company is currently in the process of commercializing the products.



IDEX's addressable market represents a multi-billion-unit opportunity, centered on three core markets: Mobile, ID & Smart Cards and the Internet of Things.

**Web site:** [www.idex.no](http://www.idex.no)

**Contact:** [careers@idex.no](mailto:careers@idex.no)

**Application deadline:** 30<sup>th</sup> October 2016

**The above role does not support any applicants who require a visa to work in the UK.**

*NOTE TO AGENCIES: Please direct all enquiries to our recruitment partner IC Resources who will be happy to work with appropriate partners. Any agency CVs submitted directly to IDEX will be passed to IC Resources with no liability to IDEX.*