

Microfluidic Device Designer (REF 1020 ENG MDes)

Location: Bologna (Italy)

JOB DESCRIPTION

Design and testing of microfluidic systems and disposables for biological applications.

DUTIES AND RESPONSIBILITIES

- Design of microsystems assembly (integrating microfluidic structures, plastic cartridges, valves)
- Support the fabrication of prototypes, the debugging and the verification & validation phases
- 2D & 3D CAD design and simulations (structural, fluidics, thermal)
- Work closely with other departments and manufacturing partner to define the systems requirements.
- Prepare and revise design layouts, diagrams, bills of material, drawings/schematics and manufacturing documents of components and assemblies in compliance with the prescribed standards
- Support the transfer to manufacture and provide technical assistance for prototype and pilot production
- Support the execution of Failure Mode and Effects Analysis (FMEA) and Criticality Analysis (FMECA)

BASIC QUALIFICATIONS

- Master's Degree in Engineering or Physics
- 3-plus years related experience
- Knowledge of MEMS manufacturing process (photolithographic methods, glass and silicon etching process, wafer bonding technologies, wafer coating and deposition process)
- Knowledge of plastic cartridge manufacturing technologies (injection moulding, hot embossing, micro-milling)
- Knowledge of Microfluidics fundamentals
- Capability to develop technical solutions autonomously and to manage collaborators
- Capability to manage multidisciplinary projects involving international partners
- Good English knowledge (written and spoken)

PREFERRED QUALIFICATIONS

- SolidWorks CAD
- Autocad and mask design CAD
- Knowledge of ISO 13485 quality system regulation
- Knowledge of IEC/UL 61010, ISO 14971, UNI EN ISO 12100, IEC 60812 standards
- Experience in biological application instruments
- Knowledge of MS Project
- Manual skills and tools usage

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