

Vacancy: Optical design engineer

Mesurex is an engineering company at the technological forefront of measurement, automation and process control in the Industrial, Aerospace, Security and Scientific sectors. HQ are located in Málaga, in the Technology Park of Andalusia with offices in Barcelona and Madrid, we solve applications and offer solutions in sensors, measurement, acquisition, data processing and process control systems with the latest technologies since 1996.

In the Measurex Instrumentation and Control Division, we offer a wide range of sensors and measurement systems, either our own or from our partners: world leaders in the field of instrumentation and industrial computing and whose products we represent exclusively. Our know how is based on the latest technologies of optical fiber sensors and non-contact measurement sensors: Infrared thermometers, thermography LWIR, MWIR, laser based distance and displacement measurement; chromatic, color, inductive, capacitive, radiofrequency based distance sensors, etc.

The MLabs division designs, develops and implements Quality and Process Control turnkey projects through image processing, in the visible and in the IR spectrum. We do Instrumentation, Monitoring, Automation, Prototype and Control Projects in the industrial and aeronautical sectors. MLabs designs, develops and/or integrates advanced products and systems under customer requirements, offering complete turnkey solutions. Once validated and tested the prototype, we perform its industrialization and subsequent series production. Furthermore, Measurex’s MLabs division also offers its Hardware and Software Design services.

Since its beginnings, Measurex carries out an ambitious R & D program, promoting the generation of new products and services for its customers. We participate in first level R & D consortia, in collaboration with the most prestigious organizations both at the European and at the national level.

We are looking for an optical design engineer with interests in applied optical design in imaging and non-imaging systems to join our team. We are looking for a motivated individual to work in a multi-disciplinary team on our on-going and future projects. The candidate should hold a Masters degree or equivalent in optics or optical engineering and must demonstrate a solid knowledge of Lighttools and/or Zemax / Code V. Knowledge of CAD or image processing would be a plus. Knowledge and experience in optics handling and assembly would also be a plus. The selected candidate will benefit from growing with a team with senior optical engineers and also be expected to have a high level of independence and initiative.

<p>Responsibilities</p> <ul style="list-style-type: none"> ✓ Optical design to end specifications of MTF, PSF, NA, colour... ✓ Brainstorming sessions on e.g. feasibility of in-coming projects ✓ Collaboration with mechanical engineers to facilitate integration ✓ Assembly and alignment of optical systems in the laboratory ✓ Characterisation of optical systems
<p>Requirements</p> <ul style="list-style-type: none"> ✓ Confident use of Lighttools and/or Zemax, Code V for design, optimisation and tolerancing ✓ Good knowledge of optics and optical systems, visible, MWIR and LWIR bands. ✓ Good use of English or Spanish
<p>Preferred</p> <ul style="list-style-type: none"> ✓ Skilled in CAD e.g. Solidworks (optional) ✓ Knowledge of computational imaging or programming. Python, C, Matlab - Prior experience in mounting optics, optical system alignment or metrology
<p>Benefits</p> <ul style="list-style-type: none"> ✓ Competitive industry salary ✓ Inclusion in a motivated multi-disciplinary team ✓ Innovative work, always at the forefront of technology ✓ Opportunities for training and personal development