



About us

ficonTEC Ireland is located inside Tyndall National Institute in the city of Cork, 253 km from the capital of Ireland, Dublin. ficonTEC Ireland is part of ficonTEC Service GmbH, a leading manufacturer of automated assembly and test equipment for several technical market areas, such as telecommunications, optical sensing, and assembly of high-quality optical beam lines, such as cameras. The R&D Eng. Lev 4 must have a basic understanding of these fields and preferably a deep understanding of one two of the relevant market areas. Since many of the customers of ficonTEC are located across the globe, the candidate must be prepared to travel worldwide to assist customers and to do on-site troubleshooting and testing of ficonTEC equipment.

We are hiring

R&D engineer level 4 (f/m/d)

Your tasks

A level 4 R&D engineer is expected to be one of the most top qualified engineers within the Research & Development team of ficonTEC Ireland in Cork, Ireland. An R&D engineer is able to work independently with minimum supervision. The role requires to take responsibility and leadership of projects and occasionally supervising junior team members or students. The R&D engineer must be able to clearly communicate his ideas to the team, management, and customers and get used to work in multidisciplinary and multicultural environments. In addition, a pragmatic and problem-solving mentality is required to deal with complex challenges in limited time.

From a technical perspective, the R&D Engineer level 4, must have a large spectrum of skills in several disciplines such as Mechanics, Electronics and Photonics, both theoretical and hands-on. The R&D Engineer should be able to develop and use sophisticated assembly machines, have a good understanding of assembly processes including mechanics, electrics, and software routines like vision algorithms. A top-level engineer can be deployed easily in complex assembly and research tasks and must be able to understand the working principles of high-tech measurement equipment and be capable to use them. Knowledge in data analysis theory and familiarity with special software is desired. Basic project management experience to independently develop and coordinate large international projects as well as to handle the workload within ficonTEC Ireland R&D is essential.



Your profil

Education

- Ph.D. degree in mechanical engineering, electrical engineering, physics or related field
- Industry experience: > 3 years
- Personal network: Minimum at one top university or research center

Technical:

- Good skills with automated micro-assembly equipment (pick & place, alignment, testing)
- Basic understanding of packaging technologies is desirable
- Wide knowledge in handling optical and electronic test equipment
- Good knowledge of high-precision mechanical designs and/or kinematic mounted systems
- Knowledge of statistical analysis and Design-Of-Experiment (Minitab, MATLAB)
- Experience in metrology, optical and/or laser system modules
- Good theoretical knowledge and hands-on experience of optical technologies like
 - lasers
 - free space optics
 - fiber optics
 - telecom/datacom
 - optical sensing
 - lidar
- Good knowledge of optomechanical assemblies
- Good knowledge of engineering design tools such as Solid Works, Zemax, etc.
- Good programming skills (Matlab, C++, Labview)
- Knowledge and experience in project management
- Knowledge of design and analysis of complex, tight tolerance mechanical and/or optomechanical assemblies, CAD (ideally solid works)
- Knowledge of electronics: reading of schematics, demonstrate the ability to identify components and explain basic electronic theory of circuits.
- Knowledge of a wide variety of photonics devices
- Understanding of photonic integrated circuits
- Proficient data analysis skills.
- Knowledge of Microsoft Office packages (Outlook, Word, Excel, PowerPoint)
- Knowledge of EU and BMBF funding schemes and experience in proposal writing.

Communication:



- Excellent presentation skills of complex data to international customers
- Good written and verbal communication skills in English (German and additional languages would be a plus)
- Good documentation skills
- Experience working within multi-disciplinary and multicultural engineering teams
- Must be proactive, self-motivated with good teamwork spirit
- Good network to global players, companies as well as universities and research centers in the fields of Photonics, Optical Communications and Electronics.

International travel may be required – less than 25%

Your application

Have we attracted your interest? Please send us your CV and Cover Letter explaining your motivation at application@ficontec.com and type in the subject field: R&D engineer ficonTEC Ireland.