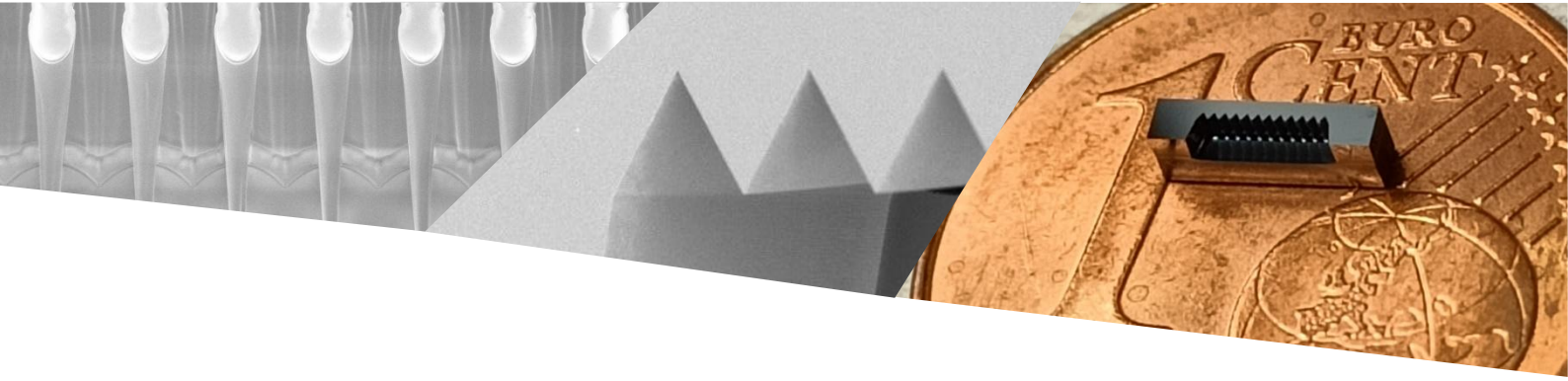


CDI – Micro-mechanics R&D Engineer (F/M/D)

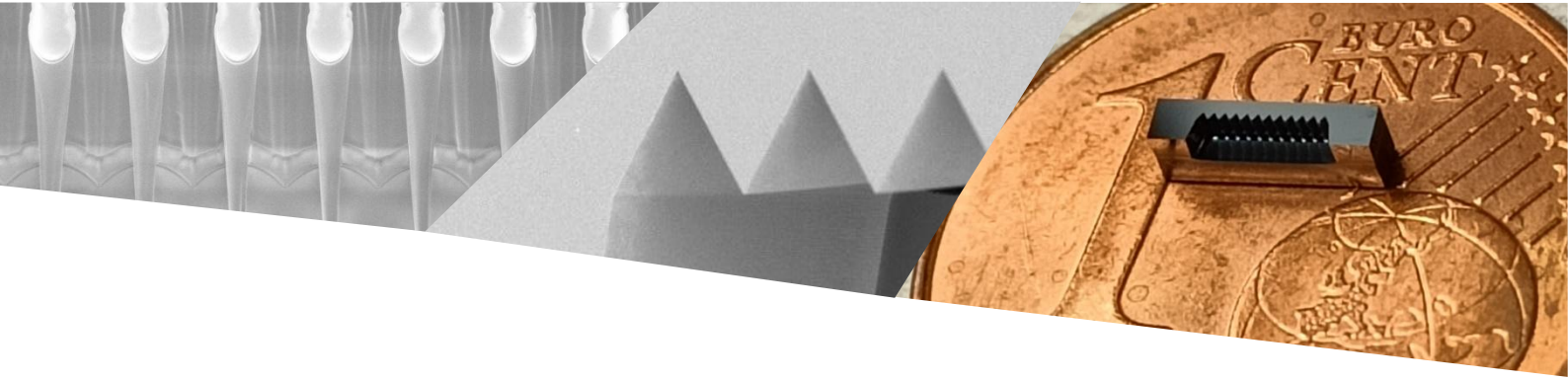
We are seeking an innovative and skilled Micro-mechanics R&D Engineer to join our dynamic team. Your expertise in mechanics, micro-mechanics or opto-mechanics will be crucial in developing and refining the micro-mechanical systems and optical interconnects that are core to ICON Photonics' cutting-edge technologies. Ideally you have a first experience in the field of opto-mechanics or photonics packaging. You will play a pivotal role in designing attachable and detachable connectors for optical interconnects at the chip level, contributing to ultra-high-speed communications, quantum computing, and advanced sensing applications.

Key Responsibilities

- Mechanical design: lead the design of mechanical components at both micro- and macro-scales for photonics detachable interconnects, ensuring precision and reliability
- Modeling and simulation: conduct advanced modeling and numerical simulations to predict and optimize the mechanical behavior of micro-optic systems
- Innovation and development: create, innovate and refine experimental bench setups for R&D with a clear path to production implementation
- Reliability testing: develop and execute rigorous reliability and validation test plans for mechanical and opto-mechanical components, ensuring compliance with industry standards (Telcordia, quantum, space)
- Documentation: generate and maintain detailed engineering documentation, including qualification plans, validation reports, component specifications and test procedures
- Collaborate across teams: work closely with the cleanroom manufacturing and characterization teams, applying your micro-mechanical expertise to support both R&D and production efforts

Desired Skills & Qualifications

- Engineer/Master's degree or PhD in Mechanics, Material Sciences, MEMS, Opto-mechanics, Robotics or a related field
- Strong numerical and experimental skills for mechanical system modeling and design, with proficiency in tools such as COMSOL, Ansys, Abacus, Python, Matlab, Solidworks or Fusion 360°
- In-depth understanding of the mechanical and elastic properties of materials at microscale
- High motivation to lead and drive technological innovation within a dynamic startup environment
- Excellent communication and interpersonal skills, with proficiency in both French and English
- Familiarity with microfabrication and cleanroom environments is a plus, but a willingness to learn is essential



We offer

- Full time position with great potential for fast career development within a fast-paced startup, cultivating an inclusive work environment for all employees
- Great package including private healthcare scheme, meal subsidies, public transport subsidies, collective profit-sharing plan, regular teambuilding events
- Location in close proximity to a dynamic and young scientific campus with research of excellence (CNRS, ESYCOM, Univ. Gustave Eiffel) on the green East-side of Grand Paris, Champs-sur-Marne (77), Noisy-Champs RER A and upcoming Grand Paris Express train station

Application details

- Starting Date: Ideally from September 2025 depending on candidate availability
- Process: Send CV, motivation letter and referee contact details by email
- Contact us at join-us@icon-photonics.com, with title "MECA-2025"

About ICON Photonics

ICON Photonics is a 6-year deeptech startup with a vision to scale light-to-chip connectivity, enabling the next generation of optical and quantum industries that improve people's lives. Benefiting from more than 10 years of technology development at the CNRS, ICON Photonics develops and commercializes efficient fiber-to-chip connectivity solutions from high fiber density, high-speed to cryogenic applications. As a member of our team, you will have the opportunity to evolve in a collaborative environment that allows and encourages our people to reach their full potential.

OUR CORE VALUES

Lead by example | **Bring out the best in everyone** | **Take responsability** | **Customer success is our success** | **Strive for excellence**

Join us!

Web: www.icon-photonics.com

LinkedIn: https://www.linkedin.com/company/icon-photonics/