

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

About ICON Photonics

ICON Photonics is a deeptech startup company 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**

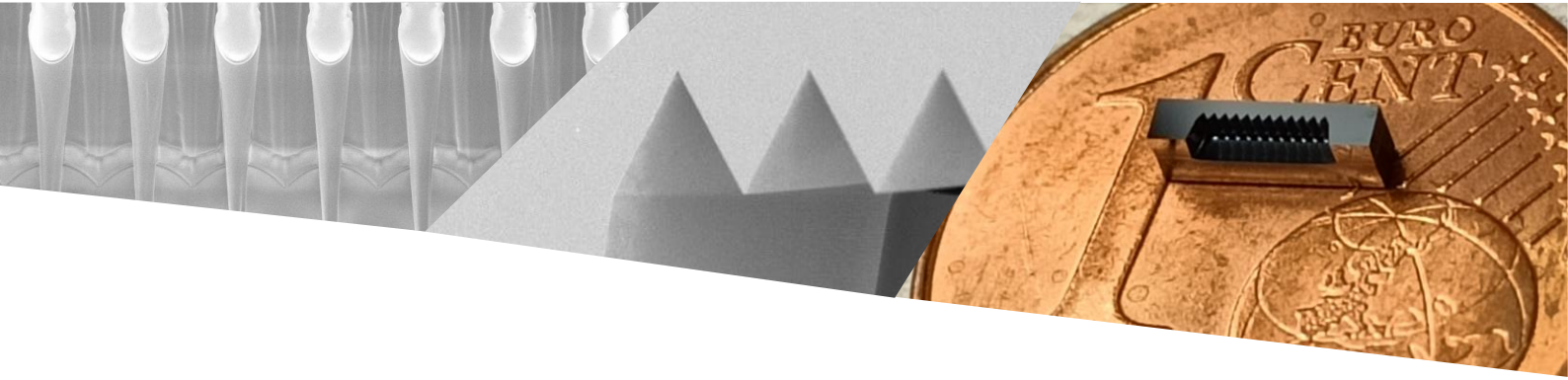
**Strive for
excellence**

The Role

The candidate comes from a background of mechanics, micro-mechanics or opto-mechanics. She/he/they will contribute to the mechanical engineering at the micron scale of the chip level opto-mechanical systems and interconnects of ICON Photonics. She/he/they will improve the material and device through the optimization of strain under critical high range thermal conditions from cryogenic to high temperature. Also, she/he/they will manage the mechanical constraints to innovate in the fiber-to-the-chip attachment methods for communications, quantum computing and sensing applications from on-the-ground to aerospace and spatial environments. The candidate will also participate and apply her/his/their micro-mechanical and material skills to the micro-fabrication in a clean room environment to support the R&D and production team.

The candidate is expected to have the taste of communication and teamwork to cooperate both within the team and with international customers to lead R&I projects and advertise on the technology technical challenges and opportunities. The candidate will be responsible for the development and design of pluggable packaging for ICON's new products, following a continuous innovation cycle. The context of reliability, yield, and compliance to environmental conditions (Telcordia, quantum, space, etc.) is crucial.

The position is expected to evolve quickly to a leading R&D or product development position within the company.



Major Responsibilities / Tasks

- Design of micro- and opto- mechanical parts for the photonics integrated detachable interconnects solutions at the chip level
- Drive modeling and numerical simulations of the mechanical behavior of micro-optic systems
- Clean room fabrication with the manufacturing and R&D team support after training
- Innovate, develop, and maintain original bench setups for R&D and transfer to production
- Operate reliability and validation test plans for mechanical and opto-mechanical behavior.
- Create, develop, and maintain detailed engineering documentation such as qualification plans, validation reports, component specifications/drawings, test procedures and work instructions

Major Desired Skills

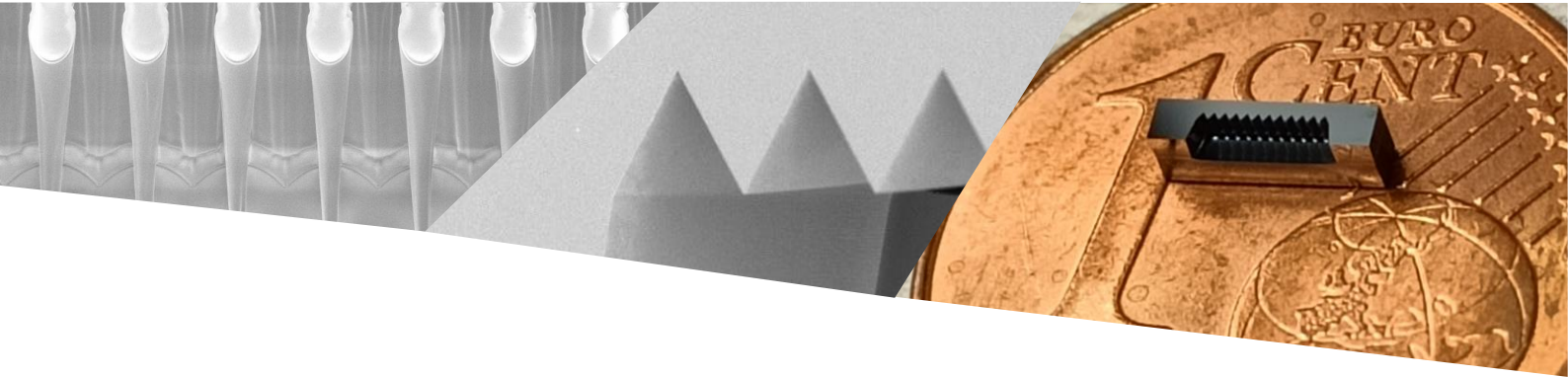
- PhD degree in Mechanics / Material Sciences / MEMS or related field, or engineer/master's degree in the field with equivalent 3-year R&D experience
- Strong knowledge of mechanical and elastic material physics at microscale
- Strong numerical and experimental skills to support mechanical system modeling and design (e.g. COMSOL, Ansys, Python, Matlab, Fusion 360°, etc.)
- A microfabrication and clean room environment knowledge, or appetite to learn, is a plus.
- Language: Strong written and verbal communications skills in both French and English
- Strong communication, interpersonal, and related skills

We offer

- Opportunity to join a dynamic and highly motivated international team committed to cultivating an inclusive work environment for all employees
- Become a R&D engineer within a game-changing deep-tech startup, tackling exciting challenges such as being part of the largest worldwide quantum computers
- Location in close proximity to a dynamic and young scientific campus with research of excellence (ESYCOM CNRS lab and more)
- Full time position with great potential for fast career development within a fast-paced startup company
- Great package including private healthcare scheme, meal subsidies, public transport subsidies, regular teambuilding events

Application details

- Starting Date: from March/June 2024 depending on candidate availability
- Location: Scientific Campus at Cité DESCARTES, Champs-sur-Marne (77), RER A train station, and upcoming Grand Paris Express. Green East-side of Grand Paris.
- Process: phone call introduction followed by several online / onsite interviews
- Contacts: Send CV and motivation letter to join-us@icon-photonics.com



Join us!

Web: www.icon-photonics.com

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



www.icon-photonics.com

