

Driving decarbonization and digitalization. Together.



Ion Trap Development Engineer (f/m/div)

Job description

Unlock the Future of Quantum Computing! The world's toughest mathematical problems remain unsolvable for even the most powerful supercomputers. Quantum computing holds the key to these challenges, but we need to transform today's prototypes into scalable, reliable systems. Leading the way are trapped-ion quantum processors, excelling in qubit fidelity and quantum volume, and poised for real-world impact. Are you ready to leave your mark? Chip in and apply now!

Taking on the role of a **Trapped-Ion Development Engineer**, you'll join a passionate, international team dedicated to making quantum computing a reality. Working closely with **top-tier customers** and **academic partners**, you'll lead the industrialization of **trapped-ion quantum processors**. Your new responsibilities include driving the **development of cutting-edge ion trap chips** and advancing their **integration** into **multichip quantum processing units (QPUs)**.

In your new role you will:

- **Drive technology development** for trapped-ion quantum processors, with focus on scaling towards very large chips
- **Co-develop the next generations of QPUs** with our commercial partners
- **Enable the research community** through projects with academic partners
- **Supervise master and PhD students**

With this position you will be entering the „technical ladder“: our career path for experts. You will be able to focus deeply on technology – while further pursuing your career. As you continually expand your expert knowledge, puzzle over matters and solve problems, you will position yourself as a thought leader – thus helping our products improve our world a bit more each day.

Profile

You are a **proactive individual** with a passion for **new technologies**, and are eager to join us on our quest to create a **more sustainable future** for everyone. You further define yourself through **clear communication**, and **team player qualities**.

To thrive on your quantum adventure, you should:

- Be a highly motivated individual who wants quantum computing to become a reality
- Have a **PhD** in **physics, quantum engineering**, or similar

At a glance

Location:

Job ID: **HRC0651574**

Start date: **as soon as possible**

Entry level: **3-5 years**

Type: **Full time**

Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0651574**

www.infineon.com/jobs



Contact

Melanie Happerger, MSc

Recruiter



- Bring **3+ years of experience** in **semiconductor manufacturing, quantum optics, and/or (trapped-ion) quantum computing**
- Be **fluent in English**, German skills or the willingness to learn is a plus

We offer competitive salaries and additional benefits based on your performance, experience and qualification. The employment is in accordance with the collective salary and wage agreement for employees of the electrical and electronics industry, employment group G (<https://www.feei.at/wp-content/uploads/2022/05/minimum-salaries-white-collar-workers-2023.pdf>). The monthly salary is paid 14 times p.a. We offer a higher compensation depending on your expertise and skills.

Benefits

- **Villach:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; Child care in Villach & Klagenfurt; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement; Performance bonus; Accessibility, access for wheelchairs

Why Us

Driving decarbonization and digitalization. Together.

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

We are on a journey to create the best Infineon for everyone.

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant's experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

–Power & Sensor Systems (PSS) drives leading-edge power management, sensing, and data transfer capabilities –

The **PSS division** powers decarbonization and digitalization with a wide range of energy-efficient and digital solutions. PSS semiconductors help avoid carbon emissions, use resources sustainably, manage power effectively and intelligently, give 'things' smart senses, and process data quickly and reliably. The portfolio includes power, connectivity, RF, and sensor system technologies to develop smaller, lighter, smarter, and more efficient solutions for consumer devices, smart home/building applications, robotics, computing and data centers, charging devices, power tools, and much more.

The next generation of silicon and wide-bandgap (SiC and GaN) solutions provides unparalleled performance and reliability for 5G, big data, and renewable energy applications. These materials are paving the way for further energy and carbon savings. Highly precise XENSIV sensor solutions are enabling IoT devices to react intuitively to their surroundings for seamless user interactions while audio amplifiers bring exceptional sound experiences to smart speakers and other audio use cases.



[Click here](#) for more information about working at PSS with interesting employee and management insights and an overview with more #PSSDreamJobs.

At **Infineon in Villach** you shape the technologies of tomorrow and work in an international environment with more than 4.700 colleagues from over 70 nations. Your personal contribution will be valued and appreciated as the cornerstones of our success. And all that in beautiful surroundings which guarantee a high quality of life.

The **City of Villach** is located in the center of Carinthia, Austria's southernmost province, in close proximity to the Italian and Slovenian border. Due to its particular geographic location and the outstanding natural beauty of the region, Villach and the whole province of Carinthia have for generations been popular holiday destinations for people from all over the world. Living in Austria also has many social, health-care-related and economic perks. The country's social and health care system is among the best in the world and for decades numerous international surveys have singled out Austria as a particularly safe and wealthy country with a high quality of life. Villach benefits from its status as a "small town", offering everyday living at affordable prices in an outstanding setting.

Find out what you like most about Villach and join us:

<https://www.welcome2villach.at/>

