www.infineon.com/austria

Intelligent technologies for a sustainable future

Infineon Technologies Austria
Fiscal year 2024

Contents

We would like to thank all our employees who contributed to this annual brochure.

The cover picture shows four Infineon Austria employees who drove the business forward during the fiscal year with their key areas of work and topics. The photo was taken at the apprentice campus at the tpv Technology Park in Villach.

Front: **Alina Absmeier,** Head of Production
Stefan Rohringer, Head of Infineon's Research and Development Centers in Austria
Back:**Johannes Schoiswohl,** Head of the GaN Systems Business Line
Mohadese Ahmadi, double Apprenticeship for Metal Technology and Electrical Engineering

THE COMPANY

Driving decarbonization and digitalization. Together.

Infineon Technologies Austria AG is a subsidiary of Infineon Technologies AG – a world leader in semiconductor solutions for power systems and the Internet of Things. With its products and solutions, Infineon drives decarbonization and digitalization.

Infineon Austria pools competencies for research and development, production and global business responsibility. As one of the country's most research-focused companies, Infineon makes a significant contribution to making life easier, safer and greener.

For a better future

Semiconductors are essential to meeting the energy challenges of our time and helping to shape the digital transformation. Though barely visible, they have long become an indispensable part of our everyday lives. As one of the world's leading semiconductor companies, we enable pioneering solutions for green and efficient energy, clean and safe mobility, and a smart and secure Internet of Things.

From an extended workbench to a global player on the semiconductor market

1970 – Siemens diode production is launched in Villach

1972 – Construction of production plants on the current Villach site

1979 – Start of chip production on 4-inch (100-mm) wafers

1979 – Construction of development center for microelectronics in Villach

1984 – Start of chip production on 5-inch (120-mm) wafers

1997 – Villach becomes global competence center for power electronics

1997 – Start of chip production on 6-inch (150-mm) wafers

1998 – Construction of the development center in Graz

1999 – Siemens semiconductor division becomes Infineon Technologies

1999 – Joint venture between DICE development center and Johannes Kepler University in Linz

2000 – Infineon Group goes public

2000 – Start of chip production on 8-inch (200-mm) wafers

2001 – First silicon carbide diode produced in Villach

2004

Establishment of IT services in Klagenfurt

2006

Opening of development center in Bucharest, Romania

Opening of front-end factory in Kulim, Malaysia

Launch of competence center for automotive and industrial electronics (KAI)

2013

Start of chip production on 12-inch (300-mm) wafers

2016

Expansion of global business responsibility after integration of International Rectifier

2017

Global competence center for new semiconductor materials in Villach

2020

Opening of new R&D buildings in Villach, Graz and Linz

2021

Completion and start of production of the new 300mm chip factory

2023

Starting the EPI competence center

Inauguration of the systems competence center in Innsbruck

2024

Inauguration of the apprentice campus at the tpv Technology Park Villach

World's first 300mm GaN power technology

World's first ultra-thin 20µm silicon power wafer

THE COMPANY

Infineon at a glance

Austria's most research-focused company*

As a leading company in the semiconductor industry, Infineon drives the development of innovative technologies in the areas of automotive, energy and industrial management, energy-efficient technologies and the Internet of Things.

Leading factory for innovative semiconductors

Production at the Villach site is the innovation factory in the global Infineon network.

Local expertise, global responsibility

Infineon Austria has global business responsibility for 14 product lines from three Group divisions. The know-how can be found in a wide range of everyday applications.

Guideline for sustainable growth

Infineon Austria incorporates the SDGs into its corporate strategy.

* According to the ranking of the "trend" business magazine, published on 21 June. 2024

Fiscal year 2024

Infineon Technologies AG	Sales	€ 14.955 billion
	Employees throughout the group	58,060
Infineon Technologies Austria Group	Sales	€ 4.757 billion
	Earnings before tax	€ 151 million
	Total investments	€ 322 million
	Total employees	5,977
	Proportion of women overall	22.2 %
	Employees in R&D	2,505
	Employees in product and process development and quality assurance	613
	Additional permanent external employees via third companies	2,085
	Degree candidates and doctoral students[1]	214
	Apprentices	118
	Interns and vacation/industrial placements[1]	1,082
Research & Development	R&D Expenditure	€ 686 million
	R&D Expenditure as a percentage of sales	14 %
	Initial patent applications	205
Production	Products (basic types)	approx. 1,800
	Production volume	7.5 billion chips
	Audits & customer visits	89

[1] Aggregated values for the fiscal year 2023/24, as of September 30, 2024, including domestic shareholdings.

€ 4.757 billion

Sales

€ 151 million

Earnings before tax

€ 686 million

R&D expenditure

The Board of Infineon Technologies Austria AG:

Dipl.-Ing.in Dr.in Sabine Herlitschka, MBA, CEO
Areas of responsibility: Research & Development, Human Resources, Communications

Mag. Jörg Eisenschmied (left), CFO
Areas of responsibility: Finance, Purchasing, IT and financial business responsibility for the "Green Energy Control" area of the Green Industrial Power (GIP) division

Dr. Thomas Reisinger (right), Operations Director
Areas of responsibility: Production, Technology, Quality Management, Infrastructure and Logistics

The fiscal year 2024

Looking back at the fiscal year 2024, we see two very different developments: from an economic point of view, the year was extremely challenging, but in terms of innovation, it was outstanding. After two years of record growth, the results reflect weak demand in key markets including automotive, renewable energy and consumer electronics. Location factors, such as high labor and energy costs, are a drag on competitiveness in the global marketplace. Infineon is actively working on a group-wide structural improvement program to sustainably strengthen its competitiveness in the medium term.

Accordingly, the Infineon Technologies Austria Group closed the fiscal year 2024 (accounting reference date September 30, 2024) in line with expectations in times of continued economic weakness.

The Austrian subsidiary of the German semiconductor group generated sales of 4.757 billion euros in 2024, a decline of around 15 percent compared to the record year of 2023. Earnings before taxes for the fiscal year amounted to 151.2 million euros (FY 2023: € 835.2 million).

In fiscal year 2024, Infineon Austria invested a total of 322.2 million euros (FY 2023: € 628 million). The majority of these investments were made in the development and production of technologies that make applications more energy efficient and therefore greener. Investments focused on infrastructure and production facilities for 300-millimeter silicon-based power semiconductors and the new semiconductor materials silicon carbide and gallium nitride.

Infineon Austria continued to invest undiminished in research and development, spending 685.5 million euros (FY 2023: € 672.2 million), and is currently the most research-focused company in Austria.[1]

With groundbreaking technological innovations, Infineon has once again proven itself as a pacesetter in power electronics. The world's first 300-millimeter gallium nitride technology for power electronics is an industry milestone: chip production on 300-millimeter wafers is technologically more advanced and significantly more efficient than on 200-millimeter wafers because the larger wafer diameter allows 2.3 times as many chips per wafer. These power semiconductors are used in power supplies for AI systems, solar inverters, chargers and adapters, and motor control systems.

In addition, Infineon's innovative approach has led to the development of ultra-thin silicon power semiconductor wafers. These thin silicon wafers are one-quarter the thickness of a human hair and half the thickness of today's most advanced wafers. They ensure even more efficient energy conversion, resulting in approximately 15 percent less power loss and enabling even more energy-efficient applications.

Artificial intelligence (AI) is likely to be the most powerful transformative technology of our time. Behind the brilliance of AI, however, is a process that consumes a lot of computing power and energy, with a significant carbon footprint. With "Powering AI", Infineon's efficient power semiconductor solutions are a key lever to limit the rapidly growing energy demand of AI data centers while enabling AI innovations.

In the past fiscal year, Infineon continued to focus on the education and further training of skilled workers, particularly in the area of apprentice training: with the opening of the new Infineon Apprentice Campus at the Technology Park Villach in 2024, the annual number of new apprentices was doubled to around 40. In January 2025, a unique training model will also be launched for existing production and maintenance employees in the form of an abbreviated electrical engineering apprenticeship.

[1] "trend" Top 500 Ranking 2024, 1st place for Infineon Austria in research & development, June 2024.

Infineon Austria Strategy 2030

Our Way of Profitable Growth

01101
10110
00110
10000

Digital Transformation
oneSAP creates a global, unified SAP landscape

World-class Manufacturing
Production of 7.5 billion chips in FY24 and world's thinnest 20µm silicon power wafer

Innovation & Time2Revenue
Production of the world's first 300mm GaN power technology

Sustainability at all levels
The logistics building is the first certified green building at the Villach site

People Engagement
Inauguration of the apprentice campus at the Technology Park Villach

Our guideline for profitable growth

Being internationally competitive from our location in Austria and optimally contributing to the Group's success – these are the Infineon Austria's sustainable objectives. The Strategy 2030 "Our Way of Profitable Growth" is the guideline for this mission, which is consistently implemented at all levels of the company. The five coordinated target areas are based on the strengths of Infineon in Austria.

A pronounced high-performance culture

Innovation, creativity and continuously striving for improvement are a living part of our day-to-day activities at Infineon Austria. They are the result of a consistent strategic focus on customer value, clearly defined goals and performance indicators in all business processes, and respectful treatment of employees. In order to ensure this high level of quality, we undergo continuous qualification in accordance with the principles of the European Foundation for Quality Management (EFQM).

By 2030, Infineon Austria will...

... leading the way of profitable growth: we develop, utilize and implement global standardization, digitalization and qualification processes and tools to increase profitability and cost competitiveness.

... a leader in innovation and time to market: with an ambitious mindset we leverage on our broad internal and external range of competencies, borderless collaboration and fast learning.

... leading the "Green Way": we actively contribute to decarbonization by developing sustainable solutions, green manufacturing and pursuing our environmental and social responsibility.

... the global center of gravity for wide bandgap technologies and systems: we expand our market leadership in power systems by shaping the transformation towards WBG with know-how, innovations and production capabilities.

... a substantial contributor to Infineon Technologies' global funding and actively supporting group-wide Public Policy targets out of the Austrian context on a European level.

... a highly attractive tech company: we globally attract and develop ambitious people by providing a diverse and highly advanced work environment for all employees.

The measures of the strategic target areas are also defined and continuously expanded with regard to their impact on the United Nation Sustainable Development Goals (SDGs). With the implementation of the target area "Sustainability at all levels", Infineon Austria is focusing more strongly on promoting decarbonization. The following SDGs are currently considered in the Strategy 2030:

Sustainable innovations for a better tomorrow

Infineon Austria combines innovative research with high-quality production and successful marketing. The Group utilizes this expertise, and has assigned global business responsibility for 14 product lines from three divisions to its subsidiary in Austria.

Energy efficiency as a driving force

The subject of energy efficiency occupies an important position for Infineon. The goal is to provide chips and system solutions that reduce consumption throughout the entire energy cycle. The Infineon Power & Sensor Systems Division is responsible for ten product lines. Typical applications for these energy-efficient products include chargers for notebooks, smartphones and tablets, as well as wireless charging technologies and battery-powered tools. Furthermore, approximately 50 percent of the servers around the world use Infineon power semiconductors for power conversion. The continued development of next-generation silicon and wide bandgap solutions (silicon carbide and gallium nitride) offers increasingly energy-efficient solutions, particularly in the areas of e-mobility, big data and renewable energy applications.

Energy-saving chips drive mobility

Power semiconductors from Infineon are an important component in electric mobility and renewable energy systems. Infineon's Green Industrial Power Division with its Chips & Discretes, Molded Integrated Power Solutions and Gate Drivers product lines is a key component in the electronic control of drives. These include, for example, inverters in wind turbines and photovoltaic units, refrigerators, pumps, fans and compressors, as well as motor controls in aboveground and underground trains. At the same time, the High Voltage Chips & Discretes product line of Infineon's Automotive Division operates its global business from Austria. Customers around the world appreciate not only the efficiency, but also the quality and reliability of the components developed and manufactured here.

Established global player

Infineon's global market success also confirms its Austrian business activities: For years, the Group has been the global market leader in power semiconductors. Infineon is a leader in the automotive sector as well as in the area of integrated safety circuits, and is excellently positioned in important growth markets such as the United States and Asia.

20 years of gobal IT expertise in Klagenfurt

For two decades, Infineon Technologies IT-Services GmbH has been operating from Klagenfurt (located in the Lakeside Science & Technology Park) as a global competence center for IT infrastructure, central IT enterprise platforms, and the integration and security of IT applications in production, administration, and research and development.
It supports 159 Infineon sites with approximately 60,000 employees in 39 countries around the world. One of the most important tasks is the operation of the global data centers for research and development and production. In addition, IT professionals manage a variety of projects to continuously improve IT services and work on AI-based solutions. More than 200,000 systems in the Infineon network are managed and protected from the Network Operation Center. The Cyber Defense Center was established in response to increased threats to data security.
In the spirit of green IT, sustainability is also taken into account:
For example, energy-efficient cooling methods are used for servers, used IT equipment is recycled, and sensors are used for predictive maintenance of IT components.

Global business responsibility for 14 production lines within the Group

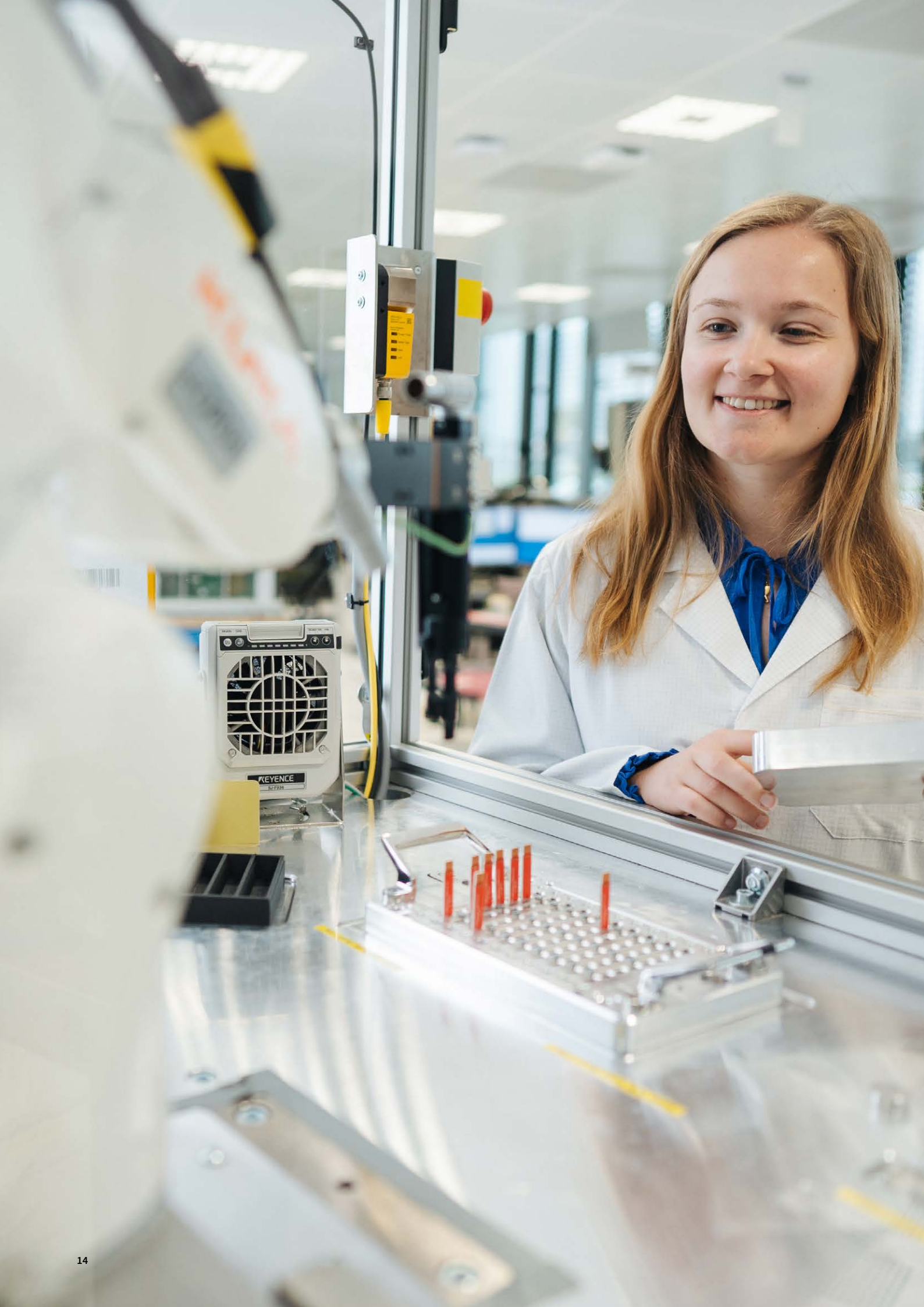
Infineon Technologies Austria is responsible for 14 product lines in three of the Group's four divisions:

Power & Sensor Systems
- Power Management ICs
- High Voltage Power Conversion
- Ultra-Low Voltage Switches
- Low Voltage Switches
- Medium Voltage Switches
- Power ICs
- Audio, Control & Protection ICs
- GaN High Voltage
- GaN Medium Voltage
- GaN Auto

Green Industrial Power
- Chips & Discretes
- Molded Integrated Power Solutions
- Gate Driver

Automotive
- High Voltage Chips & Discretes

Connected Secure Systems


KEYENCE

RESEARCH, DEVELOPMENT & INNOVATION

Shaping the future

Infineon Austria's recipe for success includes short development periods, the highest quality and a focus on customer-oriented system solutions with a "from product to system" approach.

The thematic focal points include the development of power semiconductors and thin wafer technologies, as well as sensors, micromechanics, microcontrollers, new semiconductor materials and contactless security applications.

205
Initial patent applications

2,505
Employees in R&D

€ 686 million
R&D expenditure

14 %
R&D expenditure as a percentage of sales

Market success through innovation

New ideas and new solutions are an essential basis for success for Infineon Austria as well as for Austria as a technology site. For a number of years, Infineon has been pursuing a strategy that focuses on excellent innovation management.

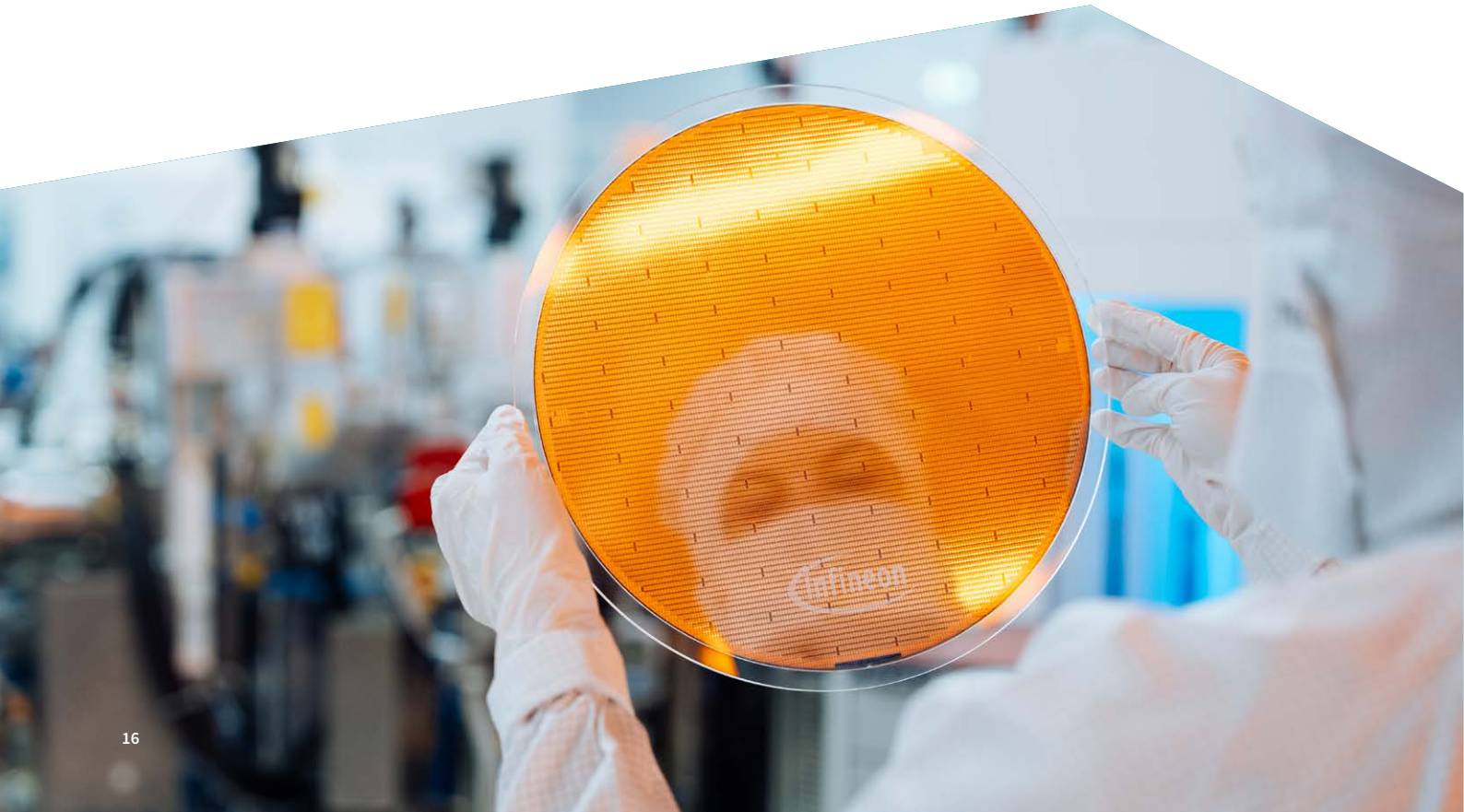
Innovations made in Austria

Innovation requires a lively and competitive culture of ideas, involving all areas and levels equally throughout the year: employees and partners such as universities, research institutions, start-ups or the maker community. The annual “Innovation Accelerator” is one element that characterizes this culture. In this internal competition, Infineon finances the implementation of the best project ideas for one year. These are projects that implement Infineon’s strategy, provide new solutions and applications to enter new markets, generate new skills, competencies and methods, and ultimately contribute to Infineon’s success.

The Innovation Days are designed to foster an interdisciplinary and interactive exchange of experiences and ideas. During this event, excellent achievements are awarded the Infineon Austria Innovation Award. More than 706 projects have been submitted so far. A prize for the best PhD thesis is also awarded. The results facilitate new inventions, and thus the development of new market potential.

Promoting inventiveness

Within the scope of our employee suggestion scheme, employees contribute innovative ideas for improvements. In the fiscal year 2024, the program entitled “Your Idea Pays” (YIP) realized 895 suggestions for improvements, amounting to a financial value of 7.42 million euros.



INNOVATION

Connect. Create. Challenge.

Infineon promotes the exchange between students, prestigious instructors and industry experts to shape the future of microelectronics. The Quantum Master Class and the annual Infineon Winter and Summer School bring together talented individuals from around the world to expand their knowledge.
This year, around 300 students from 99 nations and 114 universities and technical colleges used these three events as a platform.
The iHub at the Vienna University of Technology also offers networking between science, business and industry. This has been well established for six years. The successful concept was continued in November 2023 with the opening of the “Mission Future Hub” at the Technical University of Ljubljana as part of the EU funding program “Important Project of Common European Interest on Microelectronics” (IPCEI ME). Here, Infineon doctoral and master’s students can discuss ideas on digital and green change with researchers, experts and lecturers. They also provide a space for innovative interaction with the maker community and start-ups.

Regional start-ups, global network

Infineon develops a variety of exciting semiconductor products. The company is therefore on the lookout for partnerships with start-ups that are interested in the optimal use of Infineon products in their applications. In the fiscal year 2024, Infineon cooperated with more than ten start-ups. These up-and-coming companies can exchange ideas with technical experts and decision-makers, and receive samples and reference hardware as well as marketing support.

Success stories are proof of our commitment: SuessCo Sensors developed 3D Hall sensors for applications such as monitoring bridge bearings or detecting cracks by precisely measuring the positions and angles of objects. The start-up company GMD is working with Silicon Austria Labs (SAL) to develop customized IoT and wireless data transmission systems for the prevention of natural hazards.

Infineon hub

The innovative networking and working space for science, business and industry in Vienna.

The Infineon Group supports 25 up-and-coming companies throughout Europe.

R&D LOCATION VILLACH

Full power for greater energy efficiency

Did you know that power semiconductors play a key role in electronic devices? They convert mains power from the outlet to the requirements of the respective device. The advantage: energy loss – mostly in the form of waste heat – is minimized. The activities in Villach focus on the development of increasingly smaller and more energy-efficient chips to be used in automotive, manufacturing and consumer electronics.

Effective energy-saving chips

Infineon is the world market leader in power semiconductors. To build on this success, the team in Villach is already working on the next generation of energy-saving chips made of silicon (Si) as well as silicon carbide (SiC) and gallium nitride (GaN). In 2024, Infineon succeeded in developing the world's first 300-millimeter GaN wafer technology for power electronics and implementing it in an existing, scalable high-volume production facility. These chips enable greater size and weight efficiencies and lower overall costs for consumer applications.

Infineon also achieved another semiconductor milestone in 2024. With a thickness of only 20 micrometers, Infineon has achieved a breakthrough in the production and processing of the thinnest silicon power semiconductor wafers ever produced in a scaled-up semiconductor factory. The thin silicon wafers are one-quarter the thickness of a human hair and half the thickness of today's state-of-the-art wafers, which are between 40 and 60 micrometers thick. This innovation will help significantly improve the energy efficiency, power density and reliability of power solutions for AI data centers, as well as consumer, motor control and computing applications. Under the motto "We Power AI", it is innovations like these that will make a significant contribution to a sustainable digital future in times of the immense energy demands of AI data centers.

Smart, safe and clean vehicles

Electromobility, driver assistance systems, software-defined vehicle architectures and high-end

electronics are the main drivers in the Automotive Division. Power electronics, microcontroller solutions and sensor technologies designed in Villach enable these innovative applications for the cars of the future. A specific example is our current sensors based on magnetic fields that are integrated into the drive train (inverter). Compared to previous technologies using ABS sensors, these sensors provide 100 times faster feedback of the electric motor's drive torque. This means that not only can ESP systems react more quickly, but more traction can be put on the road in less time, significantly improving the driving experience.

Another key area is the development of "smart" switches for intelligent power distribution in vehicles. These make it possible to detect and isolate faults in the entire on-board system.

Analog, digital and more

Expertise from Villach contributes to the connection of the real with the digital world. Here, the focus is on the development of circuits that process digital as well as analog signals. One key aspect is the field of microcontrollers with worldwide responsibility for analog-mixed-signal know-how. In the field of power management, numerous power driver solutions have been developed for industrial applications and data centers. Sensors for computers and consumer electronics are other areas of focus.

In addition to a wide range of other analog-mixed-signal solutions, the latest generation of silicon and wide bandgap solutions enables unparalleled performance and reliability in high-tech applications such as big data processing and renewable energy systems.

Our site in Villach: global competence center for power electronics since 1997

Technology from Villach can be found in:

Automotive
- Comfort electronics
- Autonomous driving
- Electric power steering
- Electric and hybrid vehicles
- Charging infrastructure for electric vehicles

Power & Sensor Systems
- Wireless chargers
- LED lighting
- 5G mobile infrastructure
- Servers

Green Industrial Power
- Photovoltaic systems and wind parks
- Refrigerators and induction stoves

Learn more about Infineon's fail-safe automotive components

KAI Competence Center

KAI, a subsidiary of Infineon Austria, has been supporting key business areas such as automotive, power and industrial electronics for 18 years. Its core competency is interdisciplinary research into the reliability, applications and processing of advanced power semiconductors. Specifically, a team is working on hardware and software development for power electronics applications, device physics, materials science, simulation and chemical analysis. In addition, advanced data management methods and mathematical and statistical models are being developed. A new focus is on data science and computer vision. These technologies are used to analyze large amounts of data and improve products and processes.

R&D LOCATION GRAZ

Contactless, secure, mobile

Whether we are talking about microcontrollers, the Near Field Communication (NFC) transmission standard, security chips for payment cards and sovereign documents, precise localization or chips for more security in electric vehicles – the global competence center for contactless technologies is a driving force in innovations in security, mobility, and the Internet of Things.

Energy-efficient solutions

Infineon's development center in Graz is working on particularly fast, powerful and energy-efficient microcontrollers for use in many areas of everyday life. The focus is on the development, design and layout of innovative microcontrollers that are used, for example, in household appliances, power tools, charging stations and batteries for e-bikes, solar systems or industrial robots and automation systems.

Secure data transmission

Both contact-based and contactless security chips are designed to meet a range of standards for data transmission, with the aim of further increasing data transmission rates and finding new form factors for contactless applications.

Building on its expertise in contactless payment systems, Infineon is working on new chip solutions that make payment even more convenient, hygienic and secure. With biometric payment cards, the cardholder's fingerprint is used for authentication instead of a PIN.

SECORA™ Pay Green is a milestone in significantly reducing plastic waste and CO_2 emissions in the payment card sector – specifically, up to 100 percent less plastic waste and 60 percent less CO_2 emissions.

This solution enables the production of the world's first fully recyclable contactless (dual-interface) payment card body based on environmentally friendly and locally sourced materials.

Precise localization

Ultra-wideband (UWB) technology is used for applications that require precise and reliable location and distance measurement. Infineon Graz develops UWB solutions for access control systems, indoor navigation and "find my" services. In addition, UWB technology offers great potential for sensor and radar applications, such as vital signs detection.

Intelligent vehicles

For the automotive market, the Graz researchers developed a module to optimize the charging and discharging of batteries in electric vehicles.
The range and service life of the energy storage unit in zero-emission cars are of great importance when considering a purchase. With the right battery management, these characteristics are continuously improved, and in close cooperation with vehicle manufacturers, we were able to reach a completely new level. An augmented reality head-up display based on MEMS (micro-electro-mechanical system) mirrors is currently being developed to improve safety.

Our site in Graz: global competence center for contactless technologies since 1998

Technology from Graz can be found in:

Connected Secure Systems
- NFC ATM cards
- Payment and credit cards
- Smart wearables
- Electronic passports
- Security components for PCs and tablets
- Health insurance cards (e-cards)
- Blockchain tokens
- Microcontrollers for industrial applications

Automotive
- Tire pressure sensors
- Control of automatic transmissions
- Battery management systems
- Power Management ICs
- Radar ICs
- Laser Beam Scanner ICs

Power & Sensor Systems
- 3D image sensor chips for Augmented Reality and Virtual Reality

Find out more about the research location Graz

R&D LOCATION LINZ

High-frequency development

The Infineon site in Linz is a pioneer in the field of radar technologies for driver assistance systems. Now in its fifth generation, the 77-GHz radar chip is implemented in CMOS (complementary metal-oxide-semiconductor) technology and allows multiple sensors to be cascaded to produce particularly high-resolution radar images. These radar sensors are used in driver assistance systems such as adaptive cruise control, pedestrian detection and automatic emergency braking, making driving safer and more comfortable.

Driver assistance for a safe mobility

Together with scientific institutes at the Johannes Kepler University and Silicon Austria Labs, Infineon Linz is working on the fundamentals for the further development of such radar sensors. Future vehicles will be equipped with networked, high-resolution radar sensors capable of detecting and localizing road users with very high accuracy – even in fog, against strong lights or with other visual limitations such as rain or snowfall. In the future, they will form the basis for safe, automated driving that takes all road users into account.

Efficient charging infrastructure

In order to further advance the infrastructure for electromobility, Infineon Linz is working with the Villach team on innovative gallium nitride technologies. These enable the development of powerful chargers that are half the size of conventional power supplies and have less power dissipation converted into heat. By reducing power dissipation from the original ten percent to less than three percent, a higher level of efficiency is achieved, which not only reduces exhaust heat, but also makes the devices more compact.

For better reception

The other key areas of the Linz team's development activities include high-frequency components for mobile telephony and navigation applications, like for example antenna tuners and amplifiers. With the help of these, end devices can achieve very high data rates even under unfavorable reception conditions.

Smart home applications

In the area of radar for consumer and industrial applications, 60-GHz sensors and signal processing algorithms are being developed to enable interference-free detection of people and obstacles in smart home applications. These groundbreaking solutions are integrated into a wide range of applications, from automatic door openers and smart TVs to smart thermostats and security cameras, to create a comfortable living environment.

Our site in Linz: The world's first 77 GHz radar chip using SiGe technology in 2009

Technology from Linz can be found in:

Power & Sensor Systems

– Smartphones & tablets
– High frequency switches and amplifiers for reception
– 5G base stations: Reception modules

Automotive

– Radar chips for driver assistance systems
– Distance warning systems
– Automatic emergency braking
– Autonomous vehicles

Find out more about the research location Linz

77 GHz radar chips

for driver assistance systems

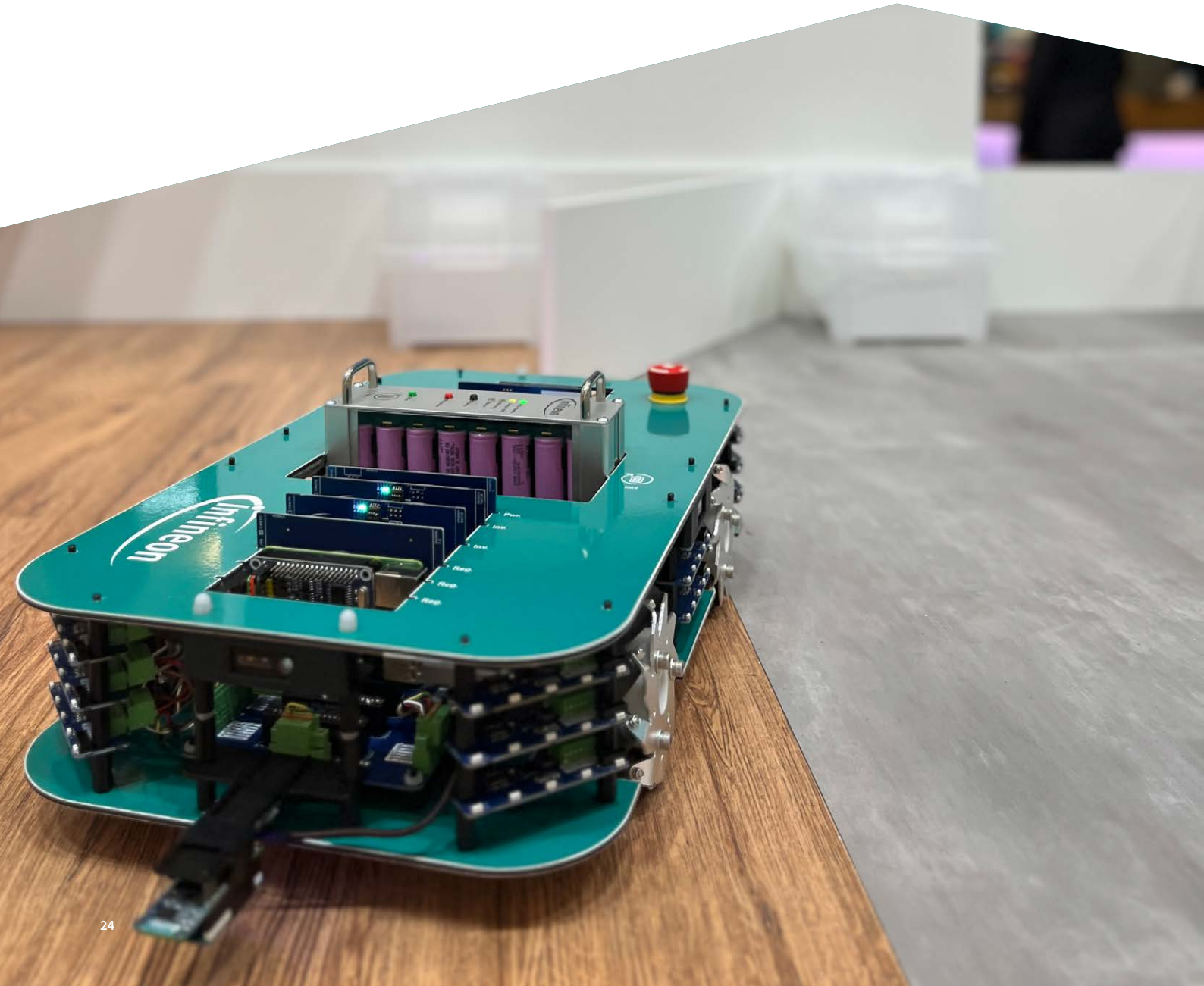
R&D LOCATION INNSBRUCK

Hardware and software systems expertise

The Systems Competence Center in Innsbruck follows Infineon's "from product to system" approach and combines the latest hardware and software solutions to create the first reference systems for the global market. This reduces the development time for our customers and helps them get their applications to market faster. The demonstrators can be used in e-mobility, life sciences, wearables or as service robots in industry, logistics or medical technology. At the same time, the site provides a place for students and schoolchildren to get involved in research projects and technical developments.

Our site in Innsbruck: Systems Competence Center since 2023

Technology from Innsbruck can be found in:
Power & Sensor Systems
– Photovoltaic systems
– Battery management systems
– Autonomous robotics



EDUCATIONAL COLLABORATIONS

Partnerships with “added value”

In view of the accelerated digital transformation, the promotion and exchange of knowledge and know-how are crucial factors. Infineon Austria maintains partnerships with universities to create the best framework conditions for the education and further development of young talents in the natural sciences and technical disciplines in Austria.

Knowledge and technology transfer

For example, Infineon is actively involved in a total of three endowed professorships at the Polytechnic University of Milan, the University of Modena and the University of Udine. In addition, Infineon Austria has entered into an academic partnership with the University of Zagreb in the field of power electronics. Infineon is also a sponsor of the “System Test Engineering” master’s degree program at FH JOANNEUM in Graz.

Infineon is a corporate partner in five Christian Doppler (CD) laboratories. In April 2024, a CD laboratory was opened at the University of Linz. The development of high-frequency signals for applications such as smartphones or navigation satellites is being researched here to shape the communication of tomorrow. Two further CD laboratories are located at the Vienna University of Technology and two at the Graz University of Technology. Here, the focus is on broad-based research into semiconductor materials.

Infineon is also a corporate partner of the Josef Ressel Center on the campus of the Carinthian University of Applied Sciences. Research here focuses on the automation of chip design. In addition, Infineon is involved in the Virtual Vehicle R&D Center on the Graz University of Technology campus, which specializes in the virtualization of vehicle development.

Doctoral theses: success through excellence

Scientific papers and doctoral theses are another important contribution when it comes to the cooperation between universities, research facilities and industry. Infineon Austria provides students with a clearly defined and diverse roadmap for their doctoral theses within the scope of a three-year PhD Excellence Program. The PhD Initiative is a vibrant community and profits from a range of activities, allowing participants to network, learn from each other and discuss ideas with top-ranking specialists in the field of semiconductors.
In 2024 alone, Infineon Austria supervised and supported around 214 doctoral students.

Infineon Austria supports 3 endowed professorships and 1 academic partnership
Polytechnic University of Milan: RF Design & Mixed-Signal IP
University of Modena: Power Electronic Simulations and Defect Optimizations on GaN
University of Udine: Power Conversion & Wireless Power Transfer
University of Zagreb, Faculty of Electrical Engineering and Computing: Academic partnership in the field of power electronics

RESEARCH COLLABORATIONS

Good alone, better in a network

Partnerships and research networks are an essential success factor in strengthening a knowledge-based industrial location in the face of global competition. Therefore, Infineon Austria cooperates with leading research establishments and is involved in many strategically relevant partnerships on a regional, national and international level. For years, Infineon has played a leading role in coordinating EU research initiatives to strengthen Europe's position in the development and manufacture of innovative microelectronics.

IPCEI strengthens Europe as a location for innovation and technology

As part of the European funding project „Important Project of Common European Interest on Microelectronics and Communications Technologies (IPCEI on ME/CT)", Infineon Austria contributes to strengthening Europe as a center of innovation and technology. After the successful completion of the "IPCEI on Microelectronics (ME)", the follow-up and extension project "IPCEI on ME/CT" was launched in April 2024.
The goal is to develop new generations of semiconductors based on existing technologies and to quickly transfer them to stable mass production. This accelerates the development and market readiness of cutting-edge technologies "made in Europe". It strengthens Europe's independence in high-tech solutions for electrification, digitalization and CO_2 reduction. To this end, Infineon is building strategic knowledge partnerships in Europe, including with universities in Sofia (Bulgaria), Zagreb (Croatia) and Ljubljana (Slovenia). This strengthens the culture of innovation and expands the pool of microelectronics experts in Europe.

Advancing cutting-edge research together

Networking as well as deepening and expanding shared competencies in microelectronic and nanoelectronic systems – this is what Infineon is pursuing with collaborations in Austria.
R&D partners include domestic research institutions such as AIT Austrian Institute of Technology, JOANNEUM RESEARCH, Fraunhofer Austria Innovation Center "Digitalization and Artificial Intelligence" (KI4LIFE) and Silicon Austria Labs. Infineon is also involved in nationwide platforms such as ESBS (Electronics and Software Based Systems) Austria and the Industrie 4.0 Österreich organization.

IPCEI Microelectronics and Communication Technologies

As part of the European funding project „IPCEI on Microelectronics and Communication Technologies", Infineon Austria contributes to strengthening Europe as a center of innovation and technology.

185
Research collaborations worldwide

Quantum research “made in Austria”

Quantum computers are a key technology of the 21st century, capable of solving complex problems many times faster than conventional computers. With the quantum test laboratory based on ion trap technologies in Villach and the cooperation with the University of Innsbruck and JOANNEUM RESEARCH, Infineon is strengthening Austria’s pioneering position in this field. The most recent highlight: in September 2024, Infineon Technologies AG, together with its technology partner Oxford Ionics Ltd., was selected as one of three consortia in a tender process by Agentur für Innovation in der Cybersicherheit GmbH (Agency for Innovation in Cybersecurity) to build a mobile quantum computer within three years.

Research makes “more from less”

With “Listen2Future” (microphone and ultrasound sensors for high-precision examinations in industry and medicine) and “All2GaN” (energy-saving chips based on the semiconductor material gallium nitride), Infineon Austria is leading two important EU projects. Infineon is also involved in two EU projects that focus on sustainability in the electronics industry: the EECONE (European ECOsystem for greeN Electronics) project is researching energy-efficient electronics that work reliably and are easy to repair and recycle. The SUSTRONICS (Sustainable and green electronics for circular economy) project is dedicated to compostable materials for medical sensors.

At the same time, Infineon is working to optimize its own processes using artificial intelligence and learning systems. With “AIMS5.0”, Infineon is working on AI solutions for greater resilience and environmental friendliness along the entire semiconductor value chain.

PEOPLE AS A SUCCESS FACTOR

The key to our success: our employees

At Infineon, the people are the focus. After all, it is their commitment, creativity and expertise that make a significant contribution to the company's success and shape the culture at the Austrian sites.

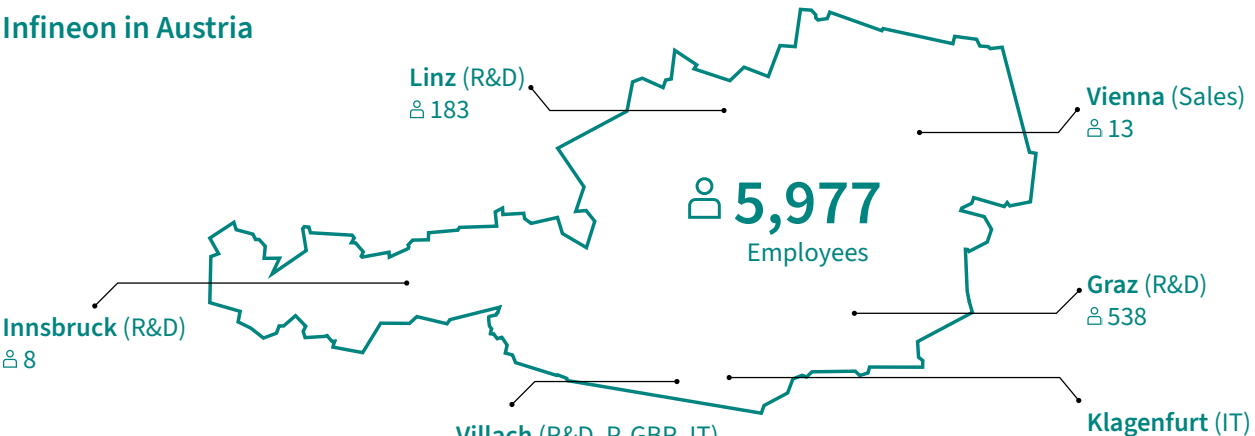
22 %
Women's share

32 %
International employees

TOP 3
LinkedIn's Top 25 Companies in Austria

Best Recruiters
Industry winner 2023/24

Infineon in Austria



R&D Research & Development
IT Information technology
GBR Global business responsibility
P Production

People create value

People are the focus of all our actions. Only with committed, healthy and successful employees we will be able to shape a successful future. This is also reflected in our human resources strategy: “People create value. Engagement drives people.“

New ways of working

The work of the future will be shaped by megatrends such as digitalization, artificial intelligence and the collaboration of human and machine. New tasks and hybrid work models give rise to new opportunities. Infineon is also taking appropriate steps in the area of “New Work” and is actively shaping the internal and external framework conditions with various initiatives and measures. These include flexible working time models and the option of working from home. What’s more: in “flexdesk projects,” the clear assignments between people and workstations are eliminated in favor of greater flexibility. The concept also gives us the opportunity to test and develop new, forward-looking ways of working. Workplaces can also be used when employees are working from home or on vacation.

Achieving work-life balance

Infineon supports its employees in reconciling their careers with their families, offering, among other things, family care periods such as the “Dad month”, or training and education in the context of educational leaves, part-time work, or sabbaticals. The Randstad Employer Brand Research 2024 study shows that this promotion of a healthy work-life balance is a success. For the seventh time in a row, Infineon Austria is ranked among the Top 10 of Austria’s most attractive employers in the overall ranking. Infineon also offers bilingual childcare and a comprehensive health promotion program.

Supporting commitment – individually and systematically

Infineon develops and implements many initiatives that contribute to the further development of its management culture, promote education and further training, and prepare young talent for corporate success in a targeted manner.

The company’s educational initiatives are aimed at all ages – from childcare to universities, Infineon actively arouses interest in science, technology, engineering, and mathematics (STEM).

At this year’s HR Award, Infineon and the Carinthian International Center took second place in the Diversity, Equity & Inclusion category.

Ready for the future

"Leadership Excellence" is another cornerstone of Infineon Austria's global success. Comprehensive management skills are needed in order to achieve the demanding strategic and operational goals. Eight specifically defined leadership principles offer guidance in leadership issues.

Dialogs and feedback

Regular dialog between managers and their employees is the centerpiece of the Leadership Excellence program. STEPS (Steps to Employees' Personal Success) is a staff development instrument for goal and career planning designed as a structured interview format. It supports the exchange of ideas and mutual feedback in all areas of work as a key element of the management culture. In addition, it allows for a definition and adaptation of personal career development. Another feedback tool is the management discussion ("Leadership Dialog"). It helps managers to reflect on their management style together with their team and to define areas for improvement.

Feedback is obtained from all employees by means of the so-called "GLINT survey". The focus of the survey is "people engagement," i.e. employee satisfaction and identification. It is carried out twice a year. The results of previous surveys encouragingly show a consistently high engagement index.

Continuous development

The most important basis for promoting the development of our executives' leadership skills is Infineon's global "Leadership Excellence" program. Systematically spanning all levels of the organization, it prepares new managers for their management responsibilities and also assists experienced managers in fulfilling their duties.

And, of course, Infineon also wants to prepare tomorrow's managers for their roles. For this purpose, there is a special talent program called "Austrian Talent Circle". It is based on four pillars: networking, mentoring, a business challenge, and training sessions. These are perfectly aligned with the goal of expanding the participants' network and helping them grow both professionally and personally. The 16-month program was launched in the fall of 2023 with 15 participants from three company sites in Austria.

Talent for the future

Customized trainee programs offer attractive entry options for top graduates. Through job rotation, systematic targeted training measures, regular feedback loops and the exchange of knowledge, young talents are prepared to take over demanding functions.

One such program is the "Junior Talent Program" (JTP). The 18- to 24-month trainee program is primarily aimed at university graduates in technical and scientific fields. The program encourages their individual strengths, develops their social and methodological skills and expands their networks.

In addition, a two-year foreperson training program is offered for around 20 employees. The training combines technical know-how with the general educational subjects required to qualify for a more demanding role in the production environment.

Promoting women in technology

Infineon Austria employs measures such as the Women's Day in Villach to provide interested young women studying technical subjects with an insight into the outstanding professional opportunities available in the high-tech sector. In addition, measures such as mentoring, maternity leave management and career planning are being implemented, and female technicians in top positions are given visibility as role models – both internally and externally. This helps to promote career opportunities for women.
To further accelerate these goals, the "Women's Award for Digitalization and Innovation" was awarded for the second time in March 2024. The award was created by Infineon Austria and the Austrian Broadcasting Corporation (ORF) to honor talented young women and their achievements in technology and science. Once again, outstanding graduates were recognized for their theses in the areas of science, technology, digitalization and innovation. The award ceremony took place on 7 March 2024, the eve of International Women's Day, at the ORF Media Campus.

**For the 7th time in a row,
Infineon Austria is ranked among the
Top 10 of Austria's most attractive employers
"Randstad Employer Brand Research 2024"**

PEOPLE AS A SUCCESS FACTOR

Embodying diversity together

As Infineon grows, so does the diversity of our workforce. Employees from 78 nations currently contribute to the company's success, 22 percent of whom are women. A multicultural and multigenerational workforce requires a new way of working. With its "Diversity & Inclusion" strategy, Infineon is strongly committed to women in technology and in management positions, among other things.

In addition, the company promotes internationality and generational management and focuses even more strongly on creating an inclusive working environment – free of prejudice and with equal opportunities for all. This contributes to individual personal development and creates an atmosphere of recognition, appreciation and belonging, which in turn promotes creativity as well as innovation.

Actively promoting integration

To help foreign workers feel at home outside of work, too, there is close cooperation with the Carinthian International Center (CIC). This networking platform was founded by Infineon and, with its 47 current member companies and institutions and more than 500 individual members from 93 countries, has been making a significant contribution to the integration of foreign employees and their families for over ten years. For these integration and diversity efforts, Infineon and CIC were awarded second place at this year's HR Award in the Diversity, Equity & Inclusion category. Infineon also supports a similar initiative, the Club International (CINT), in Graz.
Every year, as part of the cross-company integration initiative "Lehre mit Asyl" (Apprenticeship with Asylum) by Carinthian companies, Infineon creates additional apprenticeships for people granted asylum.

Generation management

A particular focus is on cross-generational learning. Learning partnerships have been established especially to promote the active exchange of knowledge among all age groups. The goal of generation management measures at Infineon is to maintain health, productivity and an innovative spirit across all age groups in the long term.

PEOPLE AS A SUCCESS FACTOR

Combining career and family

Offering employees a working environment that promotes innovation and creativity, is particularly important at Infineon Austria. The requirements for this are a culture of trust, openness and flexibility on the one hand, and a good balance between career and private life on the other.

International care concepts

For this reason, Infineon has created a range of facilities and options, such as multilingual daycare centers in Villach in collaboration with the childcare organization Sonnenstrahl. With only a few closing days as well as flexible and longer opening hours, these facilities address the needs of our employees in particular.

A total of approximately 290 childcare places are now available at three locations in Villach. These International Daycare Centers (IDCs) take care of children from 30 nations, ages twelve months to six years. International orientation, bilingualism and a focus on technology and science are at the heart of the innovative educational concept.

The International School Carinthia (ISC) in Velden, a private all-day school which uses English as its main language and German as its second language, pursues similar aims. 390 children are taught there according to both the Austrian curriculum and the learning goals of the International Baccalaureate.

Welcome2Villach

As part of the regional cooperation between industry and tourism, Infineon has co-founded the platform Welcome2Villach.at. The goal is to increase awareness of Villach's attractiveness as a business location with a high quality of life, especially for international specialists.

More about Welcom2Villach

zertifiziert familienfreundlicher Arbeitgeber
www.familieundberuf.at

Reconciling work and family life is a top priority at Infineon Austria. This is also underscored by the berufundfamilie audit.

PEOPLE AS A SUCCESS FACTOR

Where technology meets passion

From the smallest to the largest, Infineon Austria is dedicated to inspiring a passion for technology and fostering a deeper understanding of natural sciences and their phenomena through a range of initiatives. Since 2014, it has succeeded in reaching more than 125,000 children, teenagers and students throughout Austria in this way.

Experiencing technology

In 2024, the international kindergarten was awarded the MINT seal of approval by the Austrian Federal Ministry of Education, Science and Research for the third time. Under the guidance of Infineon experts, children at the International Daycare Center perform scientific experiments in miniLABs. At the Girls' Day, elementary-school-aged girls can discover their talents and abilities in the technical field in a fun way. With these activities, Infineon Austria encourages students to pursue technical and scientific training and careers. Children are also given an insight into the world of technology at the Summerkids vacation program organized by the Carinthian International Center. For more than ten years, teenagers aged 13 to 14 have been introduced to the professional world of semiconductors within the framework of the SEMI High Tech University in cooperation with the Carinthian University of Applied Sciences.

Smart world – smart learning

Linking digital technologies and skills with industrial tasks – that is the goal of the “Smart Learning” pilot classes launched in 2019 at Carinthia’s five secondary technical schools “HTLs” (Wolfsberg, Villach, Klagenfurt Mössingerstraße and Lastenstraße and Ferlach). Together with the Carinthian Directorate of Education, Infineon Austria is an initiator and supporter of this groundbreaking model that prepares young talents for the digital working world. With “Smart Learning”, topics relevant to our time such as electromobility, renewable energies and the “Internet of Things” are illustrated in day-to-day school life through practical activities, high-tech and know-how. The concept is designed to run for at least five years.

A new Infineon “Smart Learning” class was established at the HTL Anichstraße Competence Center in Innsbruck in 2024. Since 2022, two of the cooperating schools are the Linz Technikum and the HTL BULME in Graz. In addition, as part of the 2021 initiative, a digitalization laboratory was set up at the HTL in Wolfsberg. As a result, the “Smart Learning” initiative is now active in four federal states.

Infineon also supports the “virtual class” at the HTL Mössingerstraße in Klagenfurt. This class uses the latest digital teaching concepts to create spaces of opportunity for students at different levels of education. These can be used to create inter-disciplinary project groups as well as expanding the students’ knowledge in specific areas of interest.

PEOPLE AS A SUCCESS FACTOR

Empowering future minds

Digitalization and societal change require new strategies for education and training. This is why Infineon Austria is undertaking a number of measures to promote and develop talents.

Skills for development

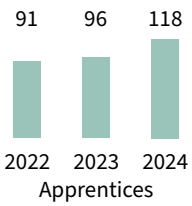
Infineon attaches great significance to training and development in all areas as a decisive factor in being competitive. Our approach is based on the 4E model, which allows for a mix of different learning styles and promotes the holistic and continuous development of learning.

The main focus is on the execution of technical tasks at the workplace (Experience). Knowledge is also acquired by learning in a network, as well as through feedback and conscious cooperation with colleagues (Exposure). Traditional learning and development activities (Education) constitute another important part. Using a suitable infrastructure as well as appropriate tools, such as webinars and virtual training rooms, learning on demand is made possible directly at the workplace (Environment). The varied and high-quality internal and external training and development opportunities we offer range from specialist and methodological competencies to courses on interpersonal and management skills as well as digital learning formats for all career paths.

Digital learning formats

The digital formats range from self-paced "learning nuggets" and facilitated "upskilling sessions" to "LinkedIn learning" and virtual coaching. As a part of the ongoing digitalization efforts, the range of e-learning courses offered is continuously being expanded, complementing traditional face-to-face training. Thanks to additional PC stations in the production area, the digital learning offer is also available to our production employees in the clean room.

In addition to digital learning formats, coaching is also offered digitally. Employees can choose coaches based on their area of expertise to discuss and reflect on their individual issues. The virtual form of coaching is especially appreciated for its high efficiency in terms of time and impact.



Plenty of news about the apprenticeship program!

In fall of 2024, the new Infineon Apprentice Campus was opened at the tpv Technology Park Villach.

State-certified training company

Infineon offers young skilled workers a double apprenticeship in electrical engineering (plant and industrial engineering) and metal technology (mechanical engineering) – a vocational training course that also allows the student to acquire the Austrian high school leaving certificate (Matura).

Future-oriented training

For young skilled workers, Infineon Austria offers a state-of-the-art technical apprenticeship. The new Infineon Apprentice Campus in Villach offers a dual apprenticeship program in electrical engineering and metal technology, with the option of graduating with a high school leaving certificate (Matura). Currently, around 25 percent of all apprentices are female.

Since September 2023, ÖBB and Infineon have also been jointly training apprentices in the field of coding. The new apprenticeship cooperation started with eight young people.

The IT apprenticeship “Coding & Application Development” is offered at the Klagenfurt site. And in the “Apprenticeship and Studies” model, the systems engineering course is offered in parallel at the Villach University of Applied Sciences in combination with a dual apprenticeship in “Process and Electrical Engineering”.

This makes an apprenticeship the perfect start to a career, opening up a wide range of development opportunities for young professionals.

Apprentice campus at the tpv Technology Park Villach

Since fall of 2024, the Infineon Apprentice Campus has been located at the training and further education campus “Campo” of Gemeinnützige Personalservice Kärnten GmbH (GPS). Together with our trusted partner, the Carinthian Technical Academy, we offer our apprentices a first-class education with state-of-the-art infrastructure.

Jobs with future prospects in the key technology of microelectronics: With the launch of the new apprentice campus, Infineon will double the annual number of apprentices from 20 to 40. The proximity to the Infineon site will be a major advantage in the future.

Find out more about Apprenticeship 4.0 at Infineon

INNOVATION FACTORY

Leading factory for innovative power semiconductors

Power semiconductors for applications in automotive and industrial electronics are the main product in Villach. The site is considered the innovation factory of the front-end production network, with partner factories in Germany and Malaysia.

7.5 billion
chips produced

2 million
wafers made of silicon, silicon carbide and gallium nitride

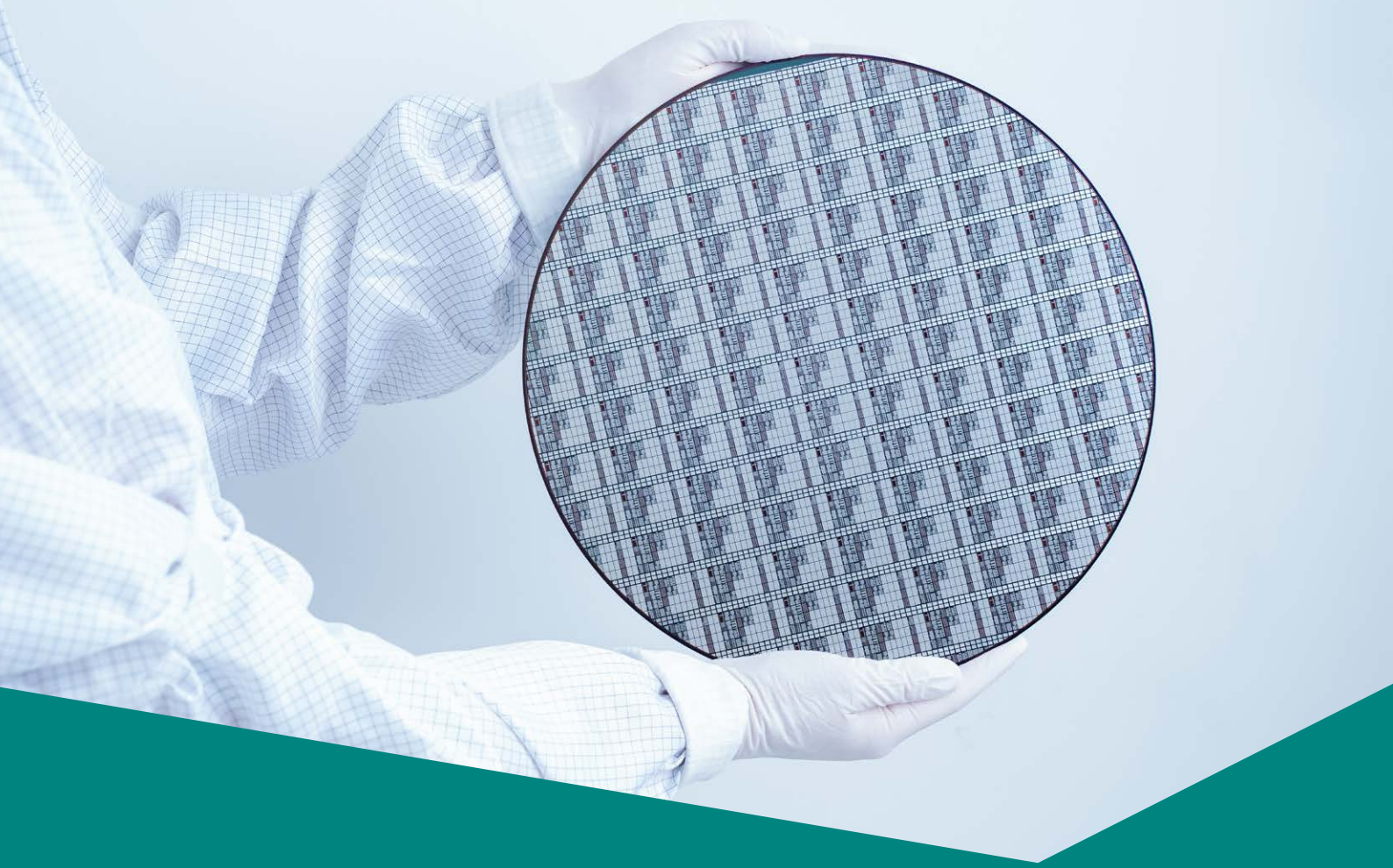
1,800
product types processed simultaneously

1,903
items of equipment

approx. 1,000
individual work steps for each wafer

605,000
wafer movements a day


infineon



GaN

World’s first

300mm GaN power technology

SiC

Volume doubled
in fiscal year 2024

Si

World’s thinnest

20 µm silicon power wafer

Wafer diameters:

150, 200, 300 mm

360° view of the production

INNOVATION FACTORY

Villach: where the future takes shape

Villach's high-volume production innovations focus on the areas of single-process development, equipment engineering, new materials, ultra-thin wafers and state-of-the-art automation, digitalization and production concepts. The optimized pooling of research, development and production as well as cross-departmental teams permit short processing times from the idea through to the finished product.

Two groundbreaking innovations

In 2024, two technological world firsts were presented, in which the teams from Villach played an important role: with the world's first 300-millimeter gallium nitride (GaN) power technology, Infineon has set a groundbreaking milestone for the industry. The second first-of-its-kind breakthrough was the production and processing of the thinnest silicon (Si) power semiconductor wafers ever produced in a scaled-up semiconductor factory.

Competence center for power electronics in the heart of Europe

The Innovation Factory in Villach is based on two pillars: the high-tech chip factory for power semiconductors on 300-millimeter thin wafers, which opened in 2021, and the state-of-the-art, intelligently automated production facility for the new semiconductor materials silicon carbide and gallium nitride. With this comprehensive manufacturing expertise in the field of power electronics, Infineon is aiming for sustainable and profitable growth.

Production and development at one site

In 2023, Infineon launched the global EPI competence center for new semiconductor materials at the Villach site. In addition to epitaxy (EPI), a crucial production step in semiconductor manufacturing, the clear innovation focus here is on systems evaluations and the transfer to the largest possible wafer diameters in SiC and GaN. Infineon has created a global competence center that enables even better and faster integration of research and production. This accelerates innovation and enables early testing of new system concepts. This focus on efficiency and speed through close collaboration between interdisciplinary product development teams is reflected in the company's culture of innovation.

The virtual mega factory

The Villach site plays a central role in Infineon's manufacturing network. Infineon has two large 300-millimeter power semiconductor manufacturing facilities: one in Dresden and one in Villach. Both manufacturing sites are based on the same standardized production and digitalization concepts and can be controlled as if they were "one" virtual mega-factory. Production volumes for different products can be moved flexibly between sites. This increases productivity and allows Infineon to respond even faster to its customers' needs.

In addition to close integration with the Dresden site in the area of 300-millimeter silicon wafers, there is also close cooperation with the Kulim site in Malaysia in the area of new semiconductor materials. The world's largest and most efficient SiC power semiconductor factory was opened there in August 2024. It is largely based on the technological expertise from Villach. The manufacturing strategy with Kulim for the new semiconductor materials provides Infineon with a unique customer value in terms of flexibility and capacity.

INNOVATION FACTORY

The driving force for technological leadership

The trend towards ever smaller and lighter end devices also poses a great challenge for the production of power semiconductors. Our answer to this is thin wafer technology and innovative basic materials.

The thinner, the better

In 2024, Infineon Austria achieved a significant technological milestone: the production of the world's thinnest 300-millimeter silicon power MOSFET technology with a thickness of 20 micrometers. These thin silicon wafers are one-quarter the thickness of a human hair and half the thickness of today's most advanced volume production wafers. Halving the wafer thickness reduces the substrate resistance by 50 percent. Power losses in power systems can be reduced by more than 15 percent compared to solutions based on conventional 40- to 60-micrometer silicon wafers. This is especially important for powering advanced AI server applications with increasing performance requirements.

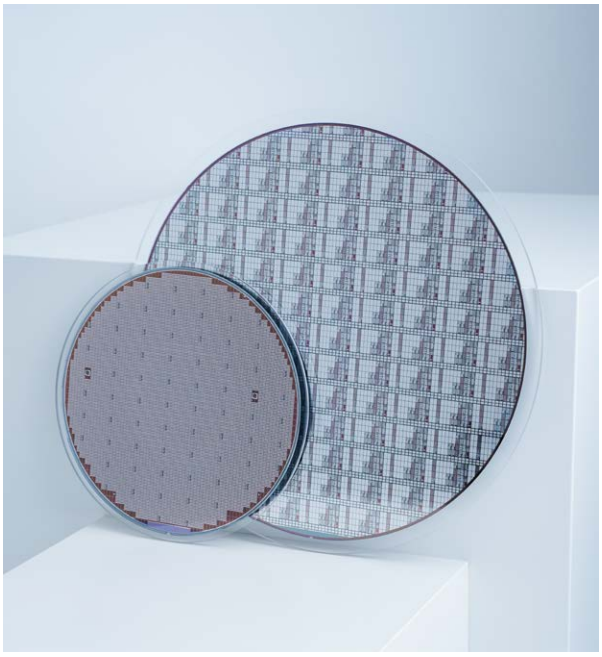
New materials for new markets

The Villach Innovation Factory is the global competence center for the new semiconductor materials within the Infineon Group. After all, it was here that the world's first SiC diode was produced in 2001. The use of the SiC and GaN semiconductor materials makes it possible to produce particularly high-performance and fast-switching system solutions with maximum reliability and low power consumption. Products based on these technologies are used in key markets of the future, such as solar and wind energy, charging stations, and electric vehicle powertrains. The development and production activities for SiC and GaN, so-called wide bandgap semiconductors, are being significantly expanded at the Villach site.

This involves improving semiconductor process technologies, creating state-of-the-art production facilities and expanding the existing production infrastructure. Together with our activities in Kulim, Malaysia, we are playing a pioneering role in this future market.

The larger, the better

Infineon is the first company in the world to master 300-millimeter GaN power technology in an existing, scalable, high-volume production facility. State-of-the-art GaN manufacturing processes improve the performance of components, enabling greater efficiency, smaller size and weight, and lower total cost of ownership for end-user applications. Chip production on 300-millimeter wafers is technologically more advanced and significantly more efficient than on 200-millimeter wafers because the larger wafer diameter allows 2.3 times as many chips per wafer.



INNOVATION FACTORY

Continuous improvement

Customers expect the highest quality. This is also what drives Infineon Austria. Our approach is called Zero Defects, which means not delivering a single defective component to our customers. Infineon adheres to this through continuous improvement, minimizing deviations and consistently eliminating them.

On the test bench

Every single chip goes through comprehensive inspections throughout the production process and is subsequently thoroughly tested. Production supports the continuous certification in accordance with the ISO 9001:2015 quality management standard and the IATF 16949:2016 automotive standard.

Smart automation in production and the introduction of Advanced Process Control regulation mechanisms ensure further quality improvements.

Purity as the highest requirement

Semiconductor component manufacturers require the highest quality resources and materials, as well as ultrapure ambient conditions. Villach uses clean rooms up to class 1, which means that 28 liters of air contain no more than one dust particle over 0.5 micrometers in diameter. By comparison, a hospital operating theater contains 1,000 to 10,000 particles, clean mountain air approximately 100,000 particles and normal ambient air about one million particles.

Stringent testing

In the test lab (Reliability Product Testing Center) at the Villach site, the quality components for automotive and industrial facilities are tested for reliability under the most stringent conditions. The results achieved serve as the basis for production and delivery approval, and ensure market readiness.

The key to perfection

On the road to perfection, failure analysis plays a critical role in semiconductor manufacturing. The team specializes in identifying, understanding and correcting manufacturing defects to ensure the highest quality products. Approximately 900 analyses are performed here each month.

Excellent product quality

Infineon Austria was selected as one of the “Top Innovative Companies 2025” in the electronics and electrical engineering category. In 2021, Infineon was awarded the “Best Customer Quality Award” in the automotive sector by Delta. With its “Focus on the customer” strategy, the company qualified for this high award level. With six zero-defect years in a row, Toyota awarded Infineon the Honor Quality Award for excellent product quality in the automotive sector in 2020.

Maximum reliability and precision

Accuracies up to well below 100 nanometers, i.e. approximately 700 times less than the diameter of a human hair, demonstrate the Villach site’s vast technological competence.

The fully automated 300-millimeter chip factory is controlled from a state-of-the-art control center.

INNOVATION FACTORY

Networked manufacturing

The new fully automated 300-millimeter chip factory is currently one of the most advanced in Europe and is designed according to the principles of a learning factory. The use of sensor technology in combination with communication and data processing systems makes it possible for decisions to occasionally be taken autonomously during production. And we go one step further: The production sites in Dresden and Villach can be controlled as a single virtual mega-factory.

The “Remote Operation Control Center” in Villach was launched in 2023. The fully automated 300-millimeter production in the new chip factory is centrally controlled from this state-of-the-art control center. This allows experts from all areas of production to quickly access and control all systems in the production process. The advantage lies in the faster and more flexible coordination and prioritization across all departments.

Data for greater competitiveness

In future, the greater interlacing of development and production will enable new products or processes to be shown in dynamic simulations. The aim is to capitalize on the added value of the multitude of data generated within the company on a daily basis. These findings will be used to accelerate development processes and improve prediction accuracy and the quality of decision-making, which will in turn improve productivity. Suppliers and other sites will be increasingly integrated into the overall process.

Going digital for the future

Automation and digital transformation have fundamentally changed the world of work in manufacturing. The new requirements and the ever-increasing degree of automation are not only changing existing functions, but also creating new job profiles.

Specially trained technicians and production logisticians monitor production and operate highly complex machinery from control centers. Another important area is data analytics and digitalization. A team of experts focuses on processing and structuring the data from the production lines. With the help of this data, decisions can be made more quickly and in a more informed manner, thereby increasing efficiency.

This requires high-quality training and extensive technical know-how. In order to meet the growing demand for skilled maintenance workers, Infineon has doubled the number of apprenticeships: in fall of 2024, around 40 apprentices began their dual apprenticeship in electrical engineering and metal technology at the newly built training and further education campus at tpv Technology Park Villach. In addition, Infineon will expand its training programs to include an accelerated electrical engineering apprenticeship starting in 2025 in order to provide even more targeted training and continuing education for skilled workers. In doing so, the company is proactively responding to the demands of the digital revolution and the new manufacturing jobs it is creating.

COMPREHENSIVE RESPONSIBILITY

Our contribution to a future worth living

With the development and production of innovative products, Infineon Austria is a driving force behind decarbonization and digitalization. Continuous process improvement and responsible behavior contribute to a future worth living.

This is also clearly evident both within the corporate culture itself and in all our dealings with different stakeholders.

This brochure is printed on CO_2-neutral and FSC, Blue Angel and Ecolabel certified recycled paper made from 100 % waste paper.

Scan the QR code for more information on environmental, safety and energy management at Infineon Austria.

COMPREHENSIVE RESPONSIBILITY

For the environment and society

In Austria, Infineon is recognized as a leading innovative company that takes on responsibility towards society and the environment and promotes environmental awareness in the region.

Eco-friendly commuting

As the largest employer in the region, Infineon Austria has been implementing the corporate mobility program “Green Way” since 2016, making a major contribution to infrastructural development and the transport revolution. Infineon promotes environmentally friendly ways to get to work and is committed to providing attractive public transportation options. With the introduction of a new bus schedule and the expansion of routes in the downtown area and surrounding regions, service has been greatly improved: there are nine bus lines that go directly to Infineon or to the immediate neighborhood. Infineon provides its employees with the federal state climate ticket free of charge. The company also promotes e-mobility. Today, more than 90 electric charging stations are available for employees, company cars and logistics vehicles. “Green Way” also inspires people to cycle: approximately 1,000 employees commute to work by bicycle and use the company’s extensive bicycle parking facilities. In 2024, Infineon launched the “Jobrad” initiative, which offers the latest bicycles on a leasing model. This promotes healthy and climate-friendly mobility for work and leisure.

Education shapes the future

Since the beginning of 2020, the Infineon Education Fund has been supporting educational projects run by Caritas to give socially disadvantaged children and young people in the region better opportunities for the future. The main focus is on the Caritas Learning Cafés. With a total of 105,000 euros in 2024, around 120 children and young people in the Caritas Learning Cafés in Villach, Spittal/Drau, Graz and Mürzzuschlag are being supported on their educational path. In addition, the children and young people receive learning materials when they start school. In the Learning Cafés, students between the ages of six and 16 receive free assistance with their homework. They are supervised by volunteer study guides. Infineon employees also volunteer here in their free time.

Together for better conservation of nature

Infineon promotes ecological sustainability and biodiversity in the region through its cooperation with Arge Naturschutz and the Villach District Forestry Inspectorate.

As part of a voluntary reforestation initiative, Infineon has planted approximately 3,700 trees on 2.6 hectares. The southern slope of Oswaldiberg, for example, is home to rare and ecologically valuable tree species such as Norway maple, sorb tree, and wild service tree. A weather station with sensors and AI models was also installed to provide valuable microclimate data. The initiative creates new habitats for people and animals and makes a valuable contribution to climate research. Employees are also committed to doing more to protect the natural environment. At four locations in Villach, the Infineon team has installed more than 100 nesting aids for birds and bats, which are regularly cleaned by the team. Employees also participate in the monitoring of the small animal tunnel system along Infineonstraße and in nature trail events organized with Natura 2000.

Health

Health promotion and prevention are top priorities at Infineon: the Medical Service Center in Villach and the Health Team provide a range of health activities for employees. This is also recognized by the Seal of Quality in Corporate Health Promotion.

Employees are offered a wide range of services, from preventive care and exercise to nutrition and mental health. In 2024, the main emphasis was on intestinal health and metabolism. Men and women are offered targeted health advice through seminars, lectures and information on preventive medical check-ups. In addition, a health day is organized every year. Employees have the opportunity to talk to healthcare experts, take advantage of special offers and try new things. In addition, there are virtual and face-to-face training sessions on the topics of physical and mental health. Other regular events include blood donation campaigns and stem cell typing.

Our contribution to the environment and climate

Infineon's climate strategy is based on two pillars: on the one hand, the products contribute to decarbonization. On the other hand, Infineon is reducing its own footprint. The goal is to achieve CO_2 neutrality (Scope 1 and 2) by 2030. To this end, measures are being taken to reduce direct emissions and energy consumption, as well as to purchase green electricity with proof of origin. Infineon Austria is already a pioneer in this area: since 2013, 100 percent of the electricity used has come from renewable energy sources. At group level, Infineon has also committed to the science-based targets since 2023 and is expanding its climate strategy to include the supply chain (Scope 3). Since 2024, the Product Carbon Footprint (PCF) has also been tracked at the product level.

Infineon Austria relies on digitalization and automation to increase energy efficiency at the Villach Innovation Factory. The building infrastructure and systems are equipped with sensors, automatic control devices and smart meters for the intelligent control and regulation of the facilities. Digital networking makes it possible to use energy and resources according to demand. This reduces energy and resource consumption, as well as the use of natural gas. It also helps avoid CO_2 emissions. In 2024, this project was awarded the Environmental Management Prize for the best measure in the field of energy, environmental and climate protection by the Austrian Federal Ministry for Climate Protection and the German Federal Ministry for the Environment.

The Design Center Linz is also saving energy.
The employees there have developed an "ECO mode" and made a hardware modification to switch off certain devices when not in use. The annual savings amount to approximately 310 MWh of energy.

Green hydrogen for chip production

A milestone in terms of sustainable production is the use of green hydrogen. Over the course of 2025, the hydrogen required as process gas in production will be generated directly on site in Villach from renewable energy sources.
The production process meets the highest purity requirements. This eliminates the indirect CO_2 emissions from the original fossil fuel production and transportation.

Green logistics and green electricity

When designing new procedures, technologies and innovations, Infineon attaches great importance to environmental compatibility and sustainability.
The same goes for the new logistics building: it is the first certified "green building" on the plant premises. The building reduces its environmental footprint and implements extensive measures to improve its energy balance through the optimal orientation of the building, efficient temperature systems, a smart ventilation system and a photovoltaic system. Photovoltaic panels provide solar energy to the building.

In addition, approximately 75 percent of the heating requirements for the offices and laboratories at the Villach site are covered by the intelligent reuse of exhaust heat from production and infrastructure.
100 percent of the electricity used by Infineon Austria comes from renewable sources. A wide range of measures contribute to greater energy efficiency. Since 2013, approximately 66 GWh of energy (heat and electricity) have been saved through these measures.
This corresponds roughly to the electricity consumption of 15,700 households (according to E-Control; rough estimate for a 3-person household).

Environmental Management Award 2024
Best measure in the field of energy, environmental and climate protection, Austrian Federal Ministry for Climate Protection and German Federal Ministry for the Environment

Green Way: eco-friendly commuting

1,180 employees used the climate ticket in 2024 – an offer by Infineon that allows its employees to use public transport free of charge to get to work

Matrix certification

IMPRES

Infineon Integrated Management Program for Environment, Energy, Safety and Health;
Matrix certification in accordance with the standards:
– ISO 14001:2015 (environmental management)
– ISO 45001:2018 (occupational safety management)
– ISO 50001:2018 (energy management)

Voluntary commitment since 1997

EMAS

Eco Management and Audit Scheme of the European Union
– EMAS Award: 2009, 2013, 2018 and 2024
– active contribution to achieving the United Nations Sustainable Development Goals (SDGs)

Carbon footprint

enabled by products and solutions of the Infineon Group

CO_2 burden: around 0.4 million tons of CO_2 equivalents

Ratio ~1:30
Net benefit of 10 million tons

CO_2 savings: around 11 million tons of CO_2 equivalents

Outstanding achievements

Innovation

Top Innovative Companies 2025, commissioned by trend and Statista	2024
1st place, Reputation Report on the Austrian Industry, IMWF commissioned by Industriemagazin	2022
Upper Austrian State Prize for Innovation, Infineon Linz	2021
Upper Austrian Road Safety Award, Infineon Linz	2021
Innovation Award “Austria’s Best” (ÖGVS & trend), winner electrical engineering and physics	2020
futurezone Award “5-G Innovation of the Year” for the European research project “UltimateGaN”	2019
Best Joint Innovation Award, Huawei Core Supplier Convention	2018
Successful Practice Award from the University of St. Gallen, Benchmarking Digital	2018
Austrian State Prize for Innovation	2013

Quality and delivery reliability

Responsible Business Alliance, platinum status award	2023
Best Customer Quality Award in the automotive sector, Delta	2021
Toyota Honor Quality Award	2020, 2019, 2018
Top Supplier Award, Rohde & Schwarz	2019
Partner of the Year, Hyundai Kia Motors Company (HKMC)	2018
Supplier of the Year, Inventec Corporation	2018
Best Quality Award, Huawei Core Supplier Convention	2018
EFQM (European Foundation for Quality Management) Global Excellence Award, Winner	2018

Employer

2nd place, HR Award, together with CIC, in the “Diversity, Equity & Inclusion” category	2024
4th place, Top 10 Employers in Austria, Randstad Employer Brand Research	2024
Ranked #3 among LinkedIn’s Top 25 Companies in Austria by LinkedIn	2024
Industry winner Best Recruiters 23/24 in the “Electrical/electronics manufacturing” sector, career Institut & Verlag	2023
Certificate berufundfamilie audit	2023, 2022, 2019, 2016
State-certified training company	2023, 2022, 2019
Austria’s most family-friendly employers, freundin & kununu	2023, 2022, 2021
Integration Award for “Lehre mit Asyl”, State of Carinthia	2019
Best employer, category “Electronics, Electrical Engineering, and Medical Devices”, ‘trend’ survey	2018
trendence Employer Branding Award, “Innovation of the Year”	2018

Environmental protection, health and sustainability

EMAS Award	2024, 2018, 2013
Environmental Management Prize 2024 – Best measure in the field of energy, environmental and climate protection, Austrian Federal Ministry for Climate Protection and German Federal Ministry for the Environment	2024
3rd place in the Energy Globe Award Carinthia 2024	2024
TRIGOS nomination for biodiversity activities with Arge Naturschutz	2024
Seal of Quality in Corporate Health Promotion	2024–2026
GreenTech Award "Future made in Austria" (ÖGVS), winner of the special award for climate protection technologies	2023
Outstanding sustainable commitment, IMWF on behalf of Kurier	2022
VCO Mobility Prize Carinthia: Flagship project climate ticket	2022
1st place in the Money4Change Impact Award, "Corporate, Mercer & Institutional Money" category	2021
1st place in the VCO Mobility Prize Carinthia and Austria	2018

Other Awards

The Grand Decoration of Honor in Gold for Services to the Republic of Austria for Sabine Herlitschka	2022
Carinthiacus Award International for Oliver Heinrich, Location Marketing Carinthia	2022
Rose of Recognition, Association of Women Academics (VAÖ)	2021
Ring of Honor of the City of Villach for Sabine Herlitschka	2020
Golden Apple Award for BEST Winter Course "Smart Tech: The Force Awakens" at Infineon in Graz	2020
Investment Award, Region Europe, Annual Investment Meeting Dubai	2019
Nomination Austrian State Prize for PR, category winner "Internal PR & Employer Branding"	2018
Export Prize awarded by the Austrian Federal Economic Chamber, "Industry"	2018
Sabine Herlitschka, Die Presse Austrian of the Year, "Companies with Responsibility"	2018
Thomas Reisinger, Best Manager, ÖPWZ Forum KVP & Innovation	2018
HERMES.Business.Prize, category "International Companies"	2017
3rd place in the EVA B2B Event Award, in the "Employee event" category for the "Infineon Family Day"	2017

Published by
Infineon Technologies Austria AG
9500 Villach, Austria

Final version: 11/2024

Stay connected!

www.infineon.com/austria