

We Transform the Labs that Transform the World

Agilent Technologies Germany





Agilent-facts and figures



Over 16,300 employees worldwide



> 5 billion USD revenue



>110

countries where Agilent is present on the market

>30 locations around

the globe

Trusted Answers—High-Tech Solutions for Labs Worldwide

Agilent-our journey from Silicon Valley to the world

Today, Agilent is a leader in the development of products and solutions for laboratories. Our origins can be traced back to one of the world's best known production lines for new startups-to Hewlett Packard in Silicon Valley, where we still have our headquarters to this day. We are proud of our roots and thus continue to embrace HP's core values.

Experts in analytical solutions

We specialize in analytical metrological practice, diagnostics, and applied life and chemical sciences. As a result, we are involved in many sectors that have a direct impact on everyday life, such as the development of pharmaceuticals, cancer research, as well as food and doping analyses. We are also a leading provider in the field of environmental testing-and aim to meet growing international demand in this area. Our technologies enable precise analysis and quality assurance in key areas of human life.



Santa Clara, USA

Waldbronn, Germany

Beijing, China

A Selection of Analytical Solutions from Agilent





Liquid chromatography

We supply high-precision liquid chromatography for a range of budgets and applications-from routine analysis through to cuttingedge research. This enables the analysis of the composition of basically all compounds in a liquid phase.



We have been developing some of the most flexible and robust systems on the market since the 1960s. Together with our partners, we also assist in the realization of our customers' specific requirements, to identify the components of any gas composition.



Mass spectrometry

Our highly sensitive technologies can measure and identify even a single molecule. In simple terms, this would be like taking a glass of red wine, diluting it with the volume of water in Lake Constance, and then managing to identify the grape variety.

OpenLab



Software and IT

Our software controls the instruments. filters the relevant results from the data captured, and presents the findings in customizable reports. Appropriate functions are also available for regulatory compliance and the protection of intellectual property.

Agilent Dako



Pathology

of the chances for recovery.

Our driving force-where tradition meets innovation

Our customers trust our solutions

What does a lab require to be able to conduct measurements with maximum success and accuracy? Agilent is focused on addressing this question through the products it develops for its customers. We draw on a history that is both rich in tradition and characterized by pioneering work, which is reflected, in turn, in our many registered patents.

A global team enables global service and support

We deliver a unique service to our customers, covering all aspects of our technologies. Our specialists are responsible for servicing, maintenance, training consultancy, and compliance. Working closely with users, we can overcome many complex everyday challenges and ensure the optimization of seamless processes.

Want to find out more? That's great, because we have a lot more to offer:

- Atomic Spectroscopy
- Molecular Spectroscopy
- Cell Biology
- Genomics
- Clinical Research
- Nucleic Acid Synthesis
- Sample Preparation
- Quality Control
- Analysis & Consumable supplies



Cross Lab



Agilent offers an extensive portfolio of automated dyeing procedures for accurate diagnosis and maximization



Service, support, and consulting

Our customers benefit from our global service. We ensure continued laboratory operation and offer support ranging from advice on installation and user training through to preventative maintenance.

"Agilent is recognized throughout the industry as an R&D and engineering powerhouse. We continue to roll out a strong cadence of new technologies and solutions, delighting our customers with easy-to-use, best-in-class products that improve both the science and the economics of the lab."

> - Mike McMullen, **Chief Executive Officer, Agilent**

We Are Focused on These Markets...





Food

Our technologies facilitate reliable food safety testing procedures. This ensures that food really does only contain what it is supposed to.





Environment

Agilent helps with the precise analysis of water, air, and soil. This produces, for example, reliable values for unpolluted drinking water and clean, breathable air.





Forensics

We enable reliable testing procedures for forensic and doping analyses. The findings reached help to achieve greater legal certainty.





Energy and chemicals

Our products can ascertain the quality and potential of natural and alternative sources of energy. In this way, we support globally changing needs and help to promote a sustainable energy mix.

... And Helping You Research Today What's Important for Tomorrow.



Pharmaceuticals

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60

From research and development into new active agents to product quality control—Agilent technologies enable reliable analysis that ensures a high level of drug quality.



Research and Education

We supply the tools to make breakthroughs in life, chemical, and materials sciences. Our solutions help the next generation of scientists to begin their laboratory work.





Diagnostics

Cancer represents a major challenge for individual diagnoses and therapy recommendations. Our technologies help to provide the best possible treatment and chances of recovery.





Clinical Research

Agilent's involvement in this field ranges from omics technologies for cancer research, via biomarker development, through to clinical tests.

From Hewlett-Packard (HP) to Agilent Technologies-Learn About the History of Our Company

1965

HP enters the field of

metrological practice

HP expanded its portfolio with

the takeover of F&M Scientific in

Delaware. The acquired company

time hobby of a DuPont employee

was formed in 1956 as a part-

and, with 400 employees and a

turnover of 7 million US dollars,

formed the nucleus of our

chromatography business.

1939

Hewlett-Packard is established in Palo Alto



The company was named after William Hewlett and David Packard. As graduates of Stanford University, they founded the company in a garage in Silicon Valley with start-up capital of 538 US dollars.

1999

Agilent Technologies arrives on Wall Street



Agilent Technologies emerged as an independent company from HP's metrological practice division. At 2.1 billion US dollars. the flotation went down in the record books as the largest initial public offering in Silicon Valley.

1959

The first HP branch is established in Böblingen, Germany

Eighteen employees started working here at the rear of a factory producing knitted goods. Ten years later, the company had more than 1,000 employees in Germany.

1978

Relocation to the new site in Waldbronn

This developed rapidly into a corporate campus which today has more than 1,100 employees housed in a total of six buildings.



1973

HP acquires Hupe & Busch in Karlsruhe

This marked the start of the company's success in liquid chromatography-a small startup that developed into one of Agilent's key product areas.

2013

Agilent has become a leading global company

By this point, Agilent has turned into a global concern-a global player that operates in a wide range of metrological practice markets.

2005 - 2010

A period of change and reorientation

By means of acquisitions, sales, and restructuring, Agilent concentrated its focus on the areas of electronic and analytical metrological practice.

2014

The separate company Keysight Technologies is created in the field of electronic metrological practice

Using optical and ultrafast digital technologies, metrological practice solutions were developed and marketed for the IT and communication industry at the Böblingen site.

2014

Agilent shifts the focus onto analytical metrological practice



The spin-off of Keysight Technologies now enabled Agilent to fully focus on analytical metrological practice. The main areas involved are biosciences, applied chemistry, and medical diagnostics.

2017

Agilent opens its new Customer and **Technology Center in Waldbronn**



This represented a new benchmark in Agilent's history as a company. The architecture reflected our philosophywith open and flexible rooms, the wealth of open space and light created the ideal conditions for research and development of future-oriented technologies

We Place Our Focus on People— And Sustainable Growth

With its six buildings and more than 1,100 employees, the Agilent Campus in Waldbronn is one of the largest Agilent sites worldwide. This is where our experts further extend our leading position in analytics with a view to the requirements of the future. The new Customer and Technology Center is where we bring together the expertise of our developers and engineers to be able to deal directly with our customers' varied needs.



"Agilent has more than 1,300 employees in Germany and they are a key element of our company. By bringing together our customer and development areas under one roof and with the outstanding production conditions in Waldbronn and the support of our sales organizations at various locations in Germany, we represent a key pillar of our company, at the heart of Europe."

> Andreas Kistner, Managing director Agilent Technologies Germany

Ready for the future

With the 50-million investment in the expansion of the campus, the largest made to date, we have extended the scope even further. With open plan office areas, spacious laboratories, the customer center and our excellent Agilent University, the Agilent Customer and Technology Center lays the foundations for our continued growth at the site.

At the heart of the Karlsruhe technology region

At our site, we benefit from extraordinary research and production conditions. Here in Waldbronn, at the center of the prosperous Karlsruhe technology region, our development areas are interdisciplinary and networked together directly on site.

Innovation and values

We rely on long-term relationships and close cooperation with customers and employees. Waldbronn is where our core values—maintained since the formation of Hewlett-Packard—and German ingenuity in engineering can meet. Innovation, trust, respect, and teamwork are the principles we focus on everyday.

Design that reflects our values

The buildings set the stage for active communication and open exchange across disciplines. The transparent cube, designed like a pavilion, has more than 25 rooms in total for laboratory testing and training areas, as well as 35 meeting rooms together with open-plan office areas and an auditorium.

Our Customer and Technology Center in Waldbronn



Our Waldbronn Site: High Tech and Life Sciences in the Karlsruhe Technology Region

Agilent's largest site in Germany: State-of-the-art quality analytical measurement technologies are created here in Baden-for our customers and for the best laboratories of the future.

Customer education

Customer Demo Center

Sport & Leisure Area

Research & Development, Hardware

Research & Development, Software



Customer Demo Center



Marketing & Product Management



Customer Education



Management & Administration



Research & Development, Hardware Service & Support Center

International Training Center for Service Engineers

European Repair Center



Production & Prototyping

Storage and Logistics

Industrial Design

Quality Management

Service & Support Center

Marketing & Product Management





Production & Prototyping

Made in Waldbronn: High-Performance Liquid Chromatography

The Agilent Infinity Series

The Agilent Infinity Series is the high point so far of our work in research and development-work which has been ongoing for over five decades.

High-performance liquid chromatography

What is it?

High-performance liquid chromatography (HPLC for short) is a method used to separate liquid components. Using HPLC, it is possible to detect and clean substances, and determine their concentration.

Biotech

Areas of application





Pharma

industry

Food



How is HPLC used?

samples in crime fighting.

Chemical Analyses



"On the road to smart production, we are setting new standards with our digitalization and automation support offensive. Through component traceability, the measurement of productivity and the evaluation of production data for early fault recognition, we are prepared for the future."

The areas of application are extremely varied and range

water monitoring through to the analysis of crime scene

from quality control in drug production, via drinking

- Christian Kunz, **Production Engineer Agilent Technologies** Germany



Technical highlights

- We pioneered the modular concept in HPLC and offer a wide range of detectors, injectors, pumps, and thermostats. These can be individually combined with one another and can cater for virtually every area of application and scientific need.
- With approximately 500 times the pressure of a car tire, the high-tech pumps in the Infinity series are capable of fully automatic separation within minutes, even of very complex mixtures.
- Our customer focus is illustrated by the compatibility with existing systems and infrastructures. The Agilent Infinity Series can be seamlessly combined with other software applications and Agilent instruments.



Principle of operation

- The liquid mixture being analyzed is pumped under constant high pressure through a specially filled separation column. The effect of this is that the different components pass through the separation column one by one and can therefore be measured individually.
- It is important that each fluid mixture has its own separation method as even very small deviations in the process can result in changes to the final result.



Agilent 1290 Infinity II LC

Made in Waldbronn: High-Performance Liquid Chromatography

Automated electrophoresis and microfluidics

What is it?

In automated electrophoresis, charged biomolecules are separated within an electrical field based on their charge or size. In this case, this occurs in extremely small molecules (microfluidics). This enables different biomolecules, for example genes and proteins, to be more precisely determined.

Areas of application



Biopharmaceutical Research



Diagnostic research

Food

technology

How is electrophoresis used?

human genetic material.

Investigations such as these are common, for example,

in basic genetic research, when determining the

designation of the origin of food and when analyzing



"Our microfluidic systems are able to detect even very minimal contaminants. With their help, for example, we can ensure that food really does only contain what it is supposed to. This protects manufacturers and consumers alike."

Jeannette Klemm,
R & D - Application Scientist
Agilent Technologies
Germany



Agilent 2100 Bioanalyzer System

Agilent TapeStation Systems

This ScreenTape technology developed by us in recent years can fully automatically analyze many samples in a short space of time.



Technical highlights

- Samples are analyzed fully automatically a clear advance over traditional methods.
- Intelligent use of consumable supplies significantly improves the efficiency of the analyses.
- The ready-to-use ScreenTape technology saves time due to the simultaneous measurement of 96 samples and the very minimal effort involved in preparation.



Principle of operation

- Our TapeStation systems separate biomolecules by automated electrophoresis.
- The integrated ScreenTape system also enables larger biomolecules such as genomic DNA to be analyzed.

Agilent Bioanalyzer System

Since 1999, our Bioanalyzer has set the benchmark for simple, fast, and adaptable analysis of biomolecules.



Technical highlights

- All key components for the analysis are placed on a chip the size of a fingernail.
- This miniature design enables very simple use and can provide evidence of biomolecules in the billionth-of-a-gram range.



Principle of operation

- Initially, charged biomolecules are separated within an electrical field.
- This involves the separation of minimal sample volumes in microscopically small channels.
- Finally, evidence of the biomolecules is provided with the aid of dyes.



Agilent TapeStation 4150

Made in Waldbronn: High-Performance Liquid Chromatography

Capillary electrophoresis

What is it?

In the analytical separation method of capillary electrophoresis (CE for short), charged molecules in a liquid are set in motion in an electrical field and separated from one another in a capillary the width of a strand of hair.

How is capillary electrophoresis used?

The detection of very small molecules is often necessary when analyzing food, while in gene technology, large, complex protein and genetic molecules are involved. Both constitute challenging analyses and can be measured precisely and reliably using our CE system.

Areas of application



Diagnostic research

Food technology





Gene

technology



Our systems have been among the highest performers for decades. The intelligent design promotes intuitive work and combines precision with flexibility.



Technical highlights

- Our system supports a range of measurement methods such as UV light, fluorescence, mass spectrometry, and conductance.
- In this case, automation, compact design and software integration are combined to make it remarkably easy to use.



Agilent 7100 CE



Principle of operation

- Liquid components are separated from one another according to size, charge, and shape in a gas capillary when a voltage of up to 30,000 volts is applied.
- Detection is finally carried out using UV light, fluorescence, or mass spectrometry.

Service & Support: Agilent CrossLab We work quickly, flexibly, and with a solution-oriented approach on our customers' behalf.

Agilent offers one of the most extensive service portfolios in the sector. This includes a full range of repair and servicing both of our instruments as well as those of third party providers. Many of our customers operate subject to strict statutory regulations and we provide them with certified compliance solutions. Our experts train customers both in the use of their instrumentation and also in joint development of analysis methods. Finally, we also undertake full laboratory management

Our specific expertise in Waldbronn



Customer education

Here, customers receive a wide range of training from our experts.

- This includes training in the use of systems for hardware, software, troubleshooting and servicing (onsite, at Agilent, or online).
- Development of analysis methods
- Planning and conception of individual training



European Repair Center

In some cases, an instrument needs to be brought from the customer to the Repair Center for extensive fault analysis or complex repair. For example, if specialist tools are required or if replacement with a refurbished instrument makes more sense than onsite repair.

- Servicing and repair of Agilent systems and instruments by third-party providers
- Extensive replacement program

for entire branches and country representations of our clients. We offer a broad range of financial models for all of these services.





International Training Center for Service Engineers

At our recently opened training center, more than 2,000 participants per year are trained in all they need to know to be able to provide rapid and competent assistance under the most challenging conditions.

- State-of-the-art e-learning studio, supporting an extensive range of online training
- Extensive laboratory capacity for intensive and practical training directly on the instrument
- Very well equipped training rooms



Service & Support Center

The first point of contact for customers for all their questions and needs.

- Phone and online advice, including remote error diagnosis and application consulting
- Support service coordination, for example, of the setup and checking of our instrumentation
- Sale of servicing and guarantee agreements

"A Great Place to Work"—Get to Know Agilent

We have become outstanding—and are one of Germany's best employers—due to our employees. Every day, they work with a commitment to provide our customers with what they need. Agilent wants to give something back to the people who are the reason for our success: a good work-life balance, social togetherness, as well as sustainable behavior and management for our employees of tomorrow. Get to know us a little bit better—our work, our people, our values and our philosophy.



Employee program

- Long-term employee retention through individualized and family-friendly programs
- Benefits in kind such as company bonuses, profit sharing, and a share investment plan
- Occupational pension through a company-financed pension plan with opportunities for top-ups
- Comprehensive insurance protection against accident, illness, invalidity, or death
- Employee counseling program—from professional through to personal issues



Benefits

- Modern canteen with healthy cuisine
- Fun team events with colleagues
- **Company celebrations** such as Christmas parties or the summer festival



- Flexible working time models such as trust-based working time, mobile working, special leave, sabbaticals, and long-term working time accounts
- Agilent leisure club—from skiing together, to football and marathon running
- Health care, sports activities in the company's internal course room, as well as advice from the company doctor and ergonomics experts



A Focus on Sustainability and Making a Positive Impact

Embracing sustainability at Agilent-the facts



One flagship project at our Waldbronn site is the combined energy center (EVBZ) and cogeneration unit. This was implemented in cooperation with the Waldbronn community and EnBW AG. The Agilent premises, a neighboring industrial company, and the Waldbronn community swimming pool and ice rink are simultaneously supplied with heat, air conditioning, and power. Intelligent networking, for example, enables waste heat from Agilent building cooling units to be used to heat the Waldbronn open-air pool. Using the EVBZ, around 40% of CO₂ can be saved. We are also able to reduce CO₂ emissions through our own solar installation at the Waldbronn site. The electrical charging points at the campus are supplied exclusively with renewable energy. And there's more. Our new training center, which is equipped with the very latest media technology and an e-learning studio, enables participation in online training from the comfort of your desk and will save around 600 employee flights a year for further training activities.

Another contribution to sustainability is the use of rainwater to flush toilets in our Customer and Technology Center. Through this

measure, we save on clean water and therefore valuable resources. However, we are also having an effect on a small scale. We are creating a new living space for insects now threatened by extinction with a flower meadow and an insect hotel.

In total, Agilent invests several million US dollars every year in a global program to support more sustainable infrastructure. This has already resulted in an 8% reduction in greenhouse gases. The switch to smaller, more lightweight and sustainable packaging materials means savings of around 1,600 tonnes of CO_2 . Further information on Agilent's global involvement can be found on our homepage at agilent.com/about/companyinfo/sustainability.

Taking on shared social responsibility

Agilent is involved in the community along with its employees. We cooperate with the Biotech department of the Bertha-von-Suttner school in Ettlingen and, through this, nurture the next generation of scientists. We run fundraising campaigns for voluntary organizations in the region on a regular basis. There has also been a unique commitment made by Agilent employees over the last 20 years. They continually collect donations for a children's center in Honduras. We are also actively involved in social issues. For example, discarded furniture has been distributed to social institutions as part of a large organized campaign. Those involved had fun and, in the process, did a lot of good for people and the environment.





Recognition as one of Germany's best employers

In the "Great place to work" study, Agilent employees assessed their employer as excellent—and way above average—in the key categories of integrity, respect, fairness, pride and sense of community. "In view of our diverse program, this award represents incredible recognition,



Employee events

Whether it's the Christmas party, summer festival, or team events– community is a real priority at Agilent. With numerous sporting activities on offer such as fitness courses, football, volleyball, tennis, ice skating, boules, or skiing, the Agilent fitness club has plenty of opportunities for activities alongside everyday work. as in recent years we have implemented so many measures that prioritize people and employees," explains Parthena Intze, HR Director Central Europe.





As part of the Agilent health day, the leisure club distributes fresh fruit to all employees.

Want to become part of the Agilent team? If so, then apply online.

For experienced professionals: careers.agilent.com

For students, interns and graduates: campus-europe@agilent.com

We look forward to receiving your application.

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