

INDUSTRIEPARK HÖCHST

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BUILDING TOMORROW TODAY



INDUSTRIEPARK HÖCHST

FERTILE GROUND FOR GROWTH AND INNOVATION



Dear Visitor,

Welcome to Industriepark Höchst, one of Europe's largest, most dynamic research and production sites for the chemical and pharmaceutical industry. It is home to over 90 companies in pharmaceuticals, biotechnology, basic and specialty chemicals, food additives and crop protection who manufacture, research and invest

in order to maintain and improve our standard of living: from large multinationals, small and medium-sized industry players to specialized service providers.

Industriepark Höchst has been an economic powerhouse in the Rhine-Main Region and beyond for over 150 years. For around 22,000 people, the 4.6 square kilometer industrial estate is a **progressive workplace** with modern work conditions. It has received around EUR 5.5 billion of investment from tenant companies since 2000. Industriepark Höchst thrives on the diversity of the firms that call it home, not to mention the profound expertise of the people who work here. They all benefit from the park's vibrant business and scientific community, mature infrastructure and close proximity to key sales and financial markets.

Many innovative everyday products are made here: from vital insulin for diabetics in one of the world's most advanced insulin plants to vibrant dyes, effective pesticides and high-performance plastics.

All of these innovations can only be manufactured safely and successfully thanks to the highly capable infrastructure provided by **park operator Infracserv Höchst**: from utilities and raw materials to safety, security and environmental protection to logistics services and waste management. The park has other selling points, too, such as a central location and excellent access to transportation networks, including close proximity to the airport, links to the German railway system and a state-of-the-art trimodal port. Industriepark Höchst bears the stamp of Infracserv Höchst's forward-looking commitment to **sustainability**, as shown in the new waste-to-energy plant. This facility supplies tenants with environmentally friendly steam and power – much like the biogas plant, which converts sewage sludge and organic waste into biogas for steam and power production. This brochure provides a brief overview of Industriepark Höchst and its companies. Come explore this thriving, innovative industrial park.

We look forward to your visit!

The management of Infracserv Höchst on behalf of all the companies at Industriepark Höchst

Jürgen Vormann

Dr. Roland Mohr



FACTS AND FIGURES – INDUSTRIEPARK HÖCHST BY THE NUMBERS

Productive and progressive – People and companies

- 22,000 employees, including more than 4,000 people in research and development
- 1,400 vocational trainees in over 40 different programs
- Around 60 nationalities at more than 90 multinational corporations

Smooth processes – Infrastructure and logistics

- 72 kilometers of roads, 57 kilometers of railroad tracks and a state-of-the-art container port connected to the German railway system
- 20,000 containers and 700,000 metric tons of bulk cargo handled per year
- Enough storage space for 140,000 pallets
- Largest storage facility for chemical products in Hesse: the high-bay warehouse holds 70,000 pallets
- 4 bus lines circulate within Industriepark Höchst every day
- Excellent access to transportation: only a few minutes from Frankfurt Airport by bus or car

Impressive size – Space and facilities

- 460 hectares of space – as large as a small town
- 50 hectares of vacant plots ready for new construction
- Over 980 rental properties, including 259 production plants and facilities and more than 90 laboratory and office buildings

Smart thinking – Utilities network

Well-integrated system connecting tenants and site operator InfraserV Höchst:

- Over 250 raw materials circulate within Industriepark Höchst
- Over 830 km of supply lines and pipelines for raw materials and intermediate products

Ready for the future

- EUR 5.5 billion invested in the park since 2000
- Over 5,000 patents held by tenants

HIGH-PERFORMANCE INFRASTRUCTURE

INFRASERV HÖCHST – A PIONEER IN SITE MANAGEMENT

Industriepark Höchst is the size of a small city. This highly focused environment is tailored to the needs of its tenants and the well-being of their employees so everything runs smoothly and tenants can concentrate on their core business. At the Höchst park and its sister sites in Monheim and Griesheim, site operator InfraserV Höchst supplies a wide range of services to support companies from the very start: from consulting to site operation to full-service site management.

InfraserV Höchst's specialists reliably meet the needs of various industries. They supply energy, fluids and raw materials, dispose of waste and wastewater in compliance with all laws and permit conditions, maintain safety and security, and provide and operate facilities, laboratories or vacant land for new

plants or buildings. Their logistics services are also world-class – Industriepark Höchst, being centrally located, makes an excellent logistics hub.

In addition, the site operator offers vocational training and continuing education courses, including a federally accredited university with international Bachelor's degree programs.

Experts at InfraserV Höchst provide occupational medical care, cook at cafeterias and run other support facilities that cater to the park's 22,000-plus employees and their visitors.

InfraserV Höchst tirelessly improves the site's infrastructure so tenants have the extra edge they need to succeed. Industriepark Höchst is ready for the future.



INFRASERV HÖCHST INVESTS IN CUTTING-EDGE INFRASTRUCTURE

Green power – Biogas plant

Who says that cutting carbon dioxide emissions and **protecting the climate and environment** can't spark innovation? A cutting-edge biogas plant, commissioned in 2010 at Industriepark Höchst, shows how to eliminate conventional fossil fuels. Every day, it produces roughly **60,000 m³** of **biogas** that is sent to a co-generation power plant to generate four megawatts of electricity and two megawatts of heat. Infraser serv Höchst engineers devised the process. First, sewage sludge from the park's wastewater treatment facility is combined with organic waste such as fermentation residues or spoiled food. Then, the mixture is anaerobically digested to produce biogas. The facility can process **200,000 m³** of sludge and **180,000 m³** of co-substrates each year.



Biogas plant, Infraser serv Höchst



Biomethane upgrading plant, Infranova

Climate-friendly energy – Biomethane upgrading

Our future depends on conserving resources. To do its part, Infraser serv Höchst joined forces with Mainova AG, a public utility, and invested roughly EUR 5 million in a biomethane upgrading plant at Industriepark Höchst. The plant upgrades biogas generated from waste and sewage sludge at the biogas plant to pipeline-quality methane and injects it into the Frankfurt public gas grid. Operated by Infranova Bioerdgas GmbH, a joint venture, the plant produces up to 80 million kilowatt-hours of biomethane per year – enough to supply around 4,000 households. Replacing conventional natural gas with climate-friendly biomethane cuts carbon dioxide emissions by around 16,000 metric tons each year.

All these exemplary, cutting-edge programs form part of Infraser serv Höchst's comprehensive waste-to-energy strategy.



“Waste-to-energy”

All these exemplary, cutting-edge programs form part of Infraser serv Höchst's comprehensive waste-to-energy strategy.

Energy independence – Gas turbine plant

Industriepark Höchst is filled with power-hungry plants and production facilities. That is why Infraserp Höchst, the park's operator, invested some EUR 70 million in a state-of-the-art gas turbine plant. The two turbines generate approximately 50 megawatts of electricity each – enough to power a city of around 200,000 households and **significantly reduce greenhouse gas emissions**. The new gas turbine plant emits roughly 224,000 metric tons of carbon dioxide less each year than conventional power generation.

Exhaust gases leave the turbines at a scalding 550 degrees Celsius. This precious heat energy is recovered as well, resulting in 130 hourly metric tons of high-pressure steam used to spin steam turbines and generate electricity. Each hour, the turbines release 135 metric tons of hot water and 30 metric tons of low-pressure steam into the Industriepark Höchst utility system to help make the park independent of outside power suppliers. As a result, electricity only needs to be purchased to cover demand peaks.



Gas turbine plant, Infraserp Höchst



Waste-to-energy plant, Infraserp Höchst

Intelligent heat and power – Waste-to-energy plant

Investments in efficient, resource-friendly and cost-effective energy generation plants are an integral part of Infraserp Höchst's innovative energy strategy. Tenants can then buy heat and power at internationally competitive rates. No wonder the **single largest investment project in Industriepark Höchst's history** is a waste-to-energy plant, representing EUR 300 million in total investment.

The plant meets an urgent need: The German government decided in 2005 to ban the landfilling of combustible waste and only permit its incineration. Now, the Infraserp Höchst facility fires "refuse-derived fuel" – non-recyclable, high-caloric-value municipal solid waste that has been specially conditioned – to produce around 70 megawatts of power and 250 tons of steam per hour. This state-of-the-art "energy machine" covers an area the size of five soccer fields.

INVESTMENTS IN THE FUTURE

TENANT ACTIVITIES

Building on 150-plus years of history, Industriepark Höchst has evolved into a leading-edge research and production site. Innovative projects by tenant companies prove that the park remains a leader in the global marketplace and a trendsetter for regional growth and employment.

NEW AT THE PARK: CELANESE PLASTICS PRODUCTION PLANT

High-performance plastics from one of the world's largest plants

Few projects underscore Industriepark Höchst's appeal as an industrial site better than the once-in-a-century undertaking to relocate the Ticona production plants – one of the largest construction projects conducted by the German chemical industry in recent history. In 2011, chemical company Celanese relocated its production facility for engineering plastics from Kelsterbach to Industriepark Höchst in order to make room for the Frankfurt Airport expansion.

The construction of the **world's largest production facility for polyoxymethylene plastic**, sold under the Hostaform brand name, took three years and the combined efforts of a large team: the jobsite buzzed with not only Celanese's own specialists, but also some 1,200 tradesmen and up to 400 engineers. Infraserv Höchst provided all the infrastructural services: from supplying utilities, disposing of waste and wastewater, performing various construction and demolition projects,



Production plant for high-performance plastics, Celanese

connecting the IT network, building an access road, managing jobsite logistics and providing security to handling permit issues and implementing emissions and noise control measures. The advanced production plant produces 140,000 metric tons of polyoxymethylene every year. This versatile plastic is used in fasteners, industrial cogs, household appliances, drinking water applications and the automotive industry.

Carbon dioxide recycling protects the environment

Cutting CO₂ emissions and extracting carbon dioxide from production waste is child's play, thanks to an **environmentally friendly technological innovation** at Industriepark Höchst. Four mid-sized gas producers – Westfalen, basi Schöberl, Sauerstoffwerk Friedrich Guttroff and Rießner-Gase – came together for this project and invested a total of EUR 5.2 million in a new carbon dioxide plant in the northern sector of Industriepark Höchst.

The raw material: carbon dioxide generated in the production of vinyl acetate at a nearby Celanese AG plant. This previously unused waste product is now recycled and reused. Raw gas from the Celanese facility flows down a 230 meter pipeline to the new plant, where it is purified and liquefied. Next, the – 25 °C CO₂ is pumped to three above-ground tanks and shipped to large customers and gas manufacturers in tankers. Carbon dioxide is used in water treatment, metal processing or as a shielding gas in welding. The quality standards are very high, especially when used to produce sparkling beverages, to pack food in a protective atmosphere or to make pharmaceutical products. The new plant, which will produce 28,000 metric tons of carbon dioxide a year, can meet all the required standards.



Research building at the park

ROCKWOOD LITHIUM GMBH

Advanced research facilities

It was clear to Rockwood Lithium, the world's leading manufacturer of lithium compounds, that Industriepark Höchst was the ideal launching pad for continued growth and success. And so it relocated its sophisticated research and development activities to this state-of-the-art industrial site. All told, 120 employees moved into 7,000 square meters of ultra-modern office and laboratory facilities in a research building specifically designed to evolve with its occupants' needs.

One of the biggest draws for Rockwood Lithium was the network of over 90 companies from the chemical, pharmaceutical and related process industries as well as many specialized service providers. The company employs around 1,200 people worldwide and is a significant provider of cesium compounds and other special metal compounds based on zirconium, barium and titanium. These chemicals are used in airbag inflators or X-ray technology. Its lithium compounds are utilized in lithium ion batteries or in the synthesis of active pharmaceutical ingredients.



Clariant Innovation Center

RESEARCH FOR A BETTER TOMORROW: CLARIANT

Innovation Center – Global research hub

For Clariant, Industriepark Höchst offers an ideal research and production environment. No wonder the Swiss company maintains its **largest global production and research site** in western Frankfurt. Here, it produces vibrant azopigments, specialized high-performance pigments as well as polyolefin waxes and additives used to produce car, industrial and architectural paints and printing inks. Clariant's high-performance pigments are also responsible for the bright color spectrum of modern-day plastics.

In October 2013, Clariant dedicated its new Clariant Innovation Center at Industriepark Höchst. This 36,000 m² facility provides an exciting environment for around 500 employees to research tomorrow's innovations. All told, Clariant invested around EUR 100 million in the state-of-the-art office and laboratory building, which will serve as a global center of competence for research and development. The company's management selected the site for its attractive location, superior infrastructure, excellent access to transportation and proximity to various industrial partners and world-class universities.

Höchst is now the nerve center of Clariant's global research network – the place where the company will collaborate with customers and development partners on innovation projects of the future.

SANOFI

Production landmark at insulin pen factory

In 2006, Sanofi built a production plant for insulin pens at Industriepark Höchst. One year and EUR 150 million later, it began turning out these special syringes for diabetics. The latest landmark came in 2013: the production of the billionth SoloStar® insulin pen. The factory has long since achieved its forecasted capacity of one million insulin pens per day. On some days, it even exceeds it.

With around 380 million diabetes sufferers worldwide, demand for insulin and syringes is huge. Millions of diabetics around the globe already administer Sanofi insulin with a pen, and more switch to pens every day. The pens contain a glass cartridge that holds rapid-acting or long-acting analog insulin and human insulin, much like cartridges store ink in fountain pens. The insulin is produced by Sanofi in state-of-the-art biotechnological plants located near the pen factory. Once finished, the product is shuttled from the plant to Sanofi's distribution center, where it is shipped to virtually every corner of the world in refrigerated containers.

SoloStar® was the first insulin pen that Sanofi's teams in Frankfurt developed themselves in close cooperation with patients, physicians and diabetes educators. They have since created cutting-edge syringes for applications other than insulin. Several are produced in other countries. However, Industriepark Höchst remains Sanofi's high-tech site with unrivaled diabetes competence within the group.



Insulin pen factory, Sanofi

First European research center

To get closer to the European market, Samsung, South Korea's largest conglomerate, decided to build a new Frankfurt Research & Development Center at Industriepark Höchst that will be operated by Cheil Industries, one of its subsidiaries. The park's first South Korean tenant was particularly attracted to the high-powered infrastructure – the nearby international airport, large network of scientists and wide range of infrastructure services provide an excellent environment for its team. After only a year of planning and around one million euros of investment, Samsung Cheil Industries was able to move into its laboratories, thanks in part to Infraser/Höchst's laboratory design experts.

In Höchst, the researchers develop new materials for flat screen monitors. They optimize acrylate plastic films in order to provide even more brilliant colors on TVs, smartphone displays and computer monitors. Samsung also researches "new polymers" in the laboratories. These highly durable, heat-resistant plastics are used in electronics and the automotive industry. Membrane filtration systems for water treatment are also developed and refined at the new Research & Development Center.



Production plant for polyvinyl alcohol, Kuraray



Researchers in the laboratory, Samsung Cheil Industries

DRIVING GROWTH: KURARAY EUROPE GMBH

More production capacity for specialty chemicals

Since demand in Europe is growing, Kuraray Europe has decided to expand its production plant for polyvinyl alcohol (PVA) at Industriepark Höchst. PVA and its derivative, polyvinyl butyral (PVB), are basic components of many everyday products in the plastic industry: from paper, textiles, packaging and printing inks to paints, adhesives, water-soluble films and ceramics. In addition, PVB films produced by Kuraray in Troisdorf are used as the interlayer in laminated glass for automotive, solar and architectural applications. **Growth is expected to be particularly strong in the automotive industry.**

Kuraray is building a sixth production line to raise its output capacity from 70,000 to 94,000 metric tons a year. At the same time, it is optimizing processes in order to make its production operation much more energy-efficient. All told, it will be investing EUR 58 million. This major project will not only secure jobs at Industriepark Höchst, but will also move Kuraray forward on its growth path and evolutionary trajectory. Kuraray Europe GmbH is a wholly owned subsidiary of Kuraray Co., Ltd., a multinational specialty chemical company headquartered in Tokyo, Japan.



Expansion of chlor-alkali production plant, AkzoNobel

AKZONOBEL

Advanced chlorine production shrinks eco-footprint

Plant modernization and upgrading is an investment in the future, believes specialty chemical company AkzoNobel, a leading provider of chlorine, caustic soda, methyl chlorides, water treatment chemicals and monochloroacetic acid. So it plans to spend around EUR 140 million to retrofit its chlor-alkali production plant with **state-of-the-art, high-efficiency membrane electrolysis technology**. This move will additionally increase capacity 50 percent and raise output from 165,000 to 250,000 tons a year. Once the modernization is completed, the specific energy consumption of each ton of chlorine will fall around 30 percent, which will greatly improve the plant's eco-footprint. Capacity is being added for methyl chlorides, too. AkzoNobel took over the plants in Frankfurt in 2009 as part of the LII Europe acquisition. By investing heavily in them, the company aims to strengthen its position in Europe and respond to growing customer demand. Chlorine is used in many areas of life: as a disinfectant for drinking water, in swimming pools, to produce plastics such as PVC, polyurethane and epoxy resins and to manufacture 85 percent of all drugs.

BAYERCROPSCIENCE

Growing demand for crop protection agents

Before manufacturers can add capacity at Industriepark Höchst, they need adequate infrastructure. That was certainly true when Bayer CropScience built out its production facility for crop protection agents. Its decision to expand production of ACM, an intermediate product, and glufosinate ammonium, an active ingredient, was largely based on the reliability of Infracore Höchst's infrastructure services. For example, the site operator runs a recirculating chiller and chilled water plant for Bayer CropScience's glufosinate ammonium facility. Pharmaceutical manufacturing is notorious for its strict, demanding conditions – but so is the production of a new pesticide based on indaziflam, an active ingredient made in an existing plant. Sophisticated cleaning and production processes prevent product cross-contamination, while rigorous chemical analyses ensure compliance with pre-defined limits. Bayer CropScience has around 700 employees researching, developing and manufacturing environmentally compatible high-performance crop protection agents at Industriepark Höchst.



Herbicide research, Bayer CropScience

GRILLO-WERKE AG

Insourcing chemical production

To capture a larger slice of the European market, Grillo decided to manufacture dimethyl ether itself instead of buying it from suppliers. The result: Europe's most advanced production facility for dimethyl ether. It was commissioned in early 2013 in the southern sector of Industriepark Höchst.

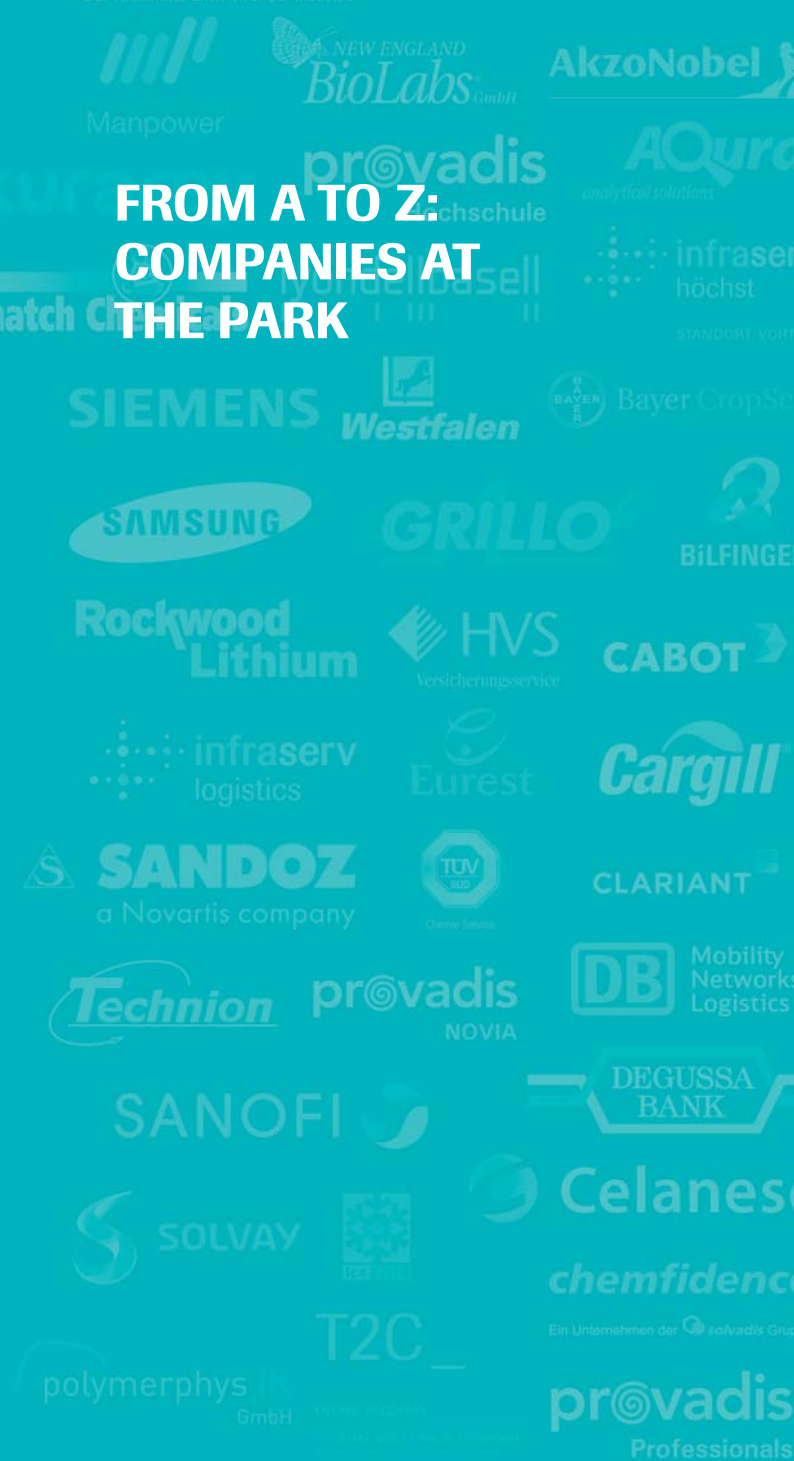
Dimethyl ether is combined with sulfur trioxide to produce dimethyl sulfate, a raw material in the production of dyes, pharmaceuticals and agricultural products. The new plant can generate 20,000 tons per year. Being an environmentally friendly propellant, dimethyl ether is also used in spray cans of paint, polyurethane foam and cosmetics.

Grillo-Werke AG is a family-run multinational based in Duisburg that employs 1,500 people, including subsidiaries.



Dimethyl ether production facility, Grillo

FROM A TO Z: COMPANIES AT THE PARK



**Core competency**

Production of basic chemicals and derivatives

Top products/ services

Energy, salt, chlor-alkali and derivative products

Employees

Total: 50,000 (Industrial Chemicals GmbH: 1,700)
Industriepark: 300

Contact

Ph. +49 69 120 140-570
akzonobel.com/ic/

Akzo Nobel Industrial Chemicals GmbH

AkzoNobel Industrial Chemicals is Europe's largest producer of vacuum salt and a leading supplier of chlorine, caustic lye, chloromethanes, hydrochloric acid, iron chloride, water treatment chemicals and monochloroacetic acid. These products are used to manufacture many everyday consumer goods such as food, detergents, vehicles, glass, performance plastics, paper, pulp, pharmaceuticals, textiles and disinfectants for swimming pools. The company, an AkzoNobel Group business unit, has around 1,700 employees at various locations in Europe, the U.S. and China, including about 300 at Industriepark Höchst.

**Core competency**

Scale-up and exclusive synthesis of high-quality chemical intermediates and final products

Top products/ services

Organic boronic acids, complex aromatic acids, aldehydes, esters and amides

Employees

Total: 70
Industriepark: 70

Contact

Ph. +49 69 4109-5954
allessa.de

Allessa GmbH

AllessaSyntec's core technologies are low-temperature syntheses down to -100 °C and high-pressure reactions such as carbonylations, hydrogenations, hydroformylations and air oxidations up to 200 bar in reactors made from stainless steel or Hastelloy. These and other advanced reactors with volumes ranging from 100 to 5,000 liters are used to scale up multi-stage laboratory syntheses to commercial scale for customers. Two non-GMP chemical plants can synthesize between 10 kilograms and 50 tons of high-quality intermediates and final products for customers in fine and specialty chemicals, electronics, agriculture and pharmaceuticals.

**AQura GmbH**

AQura GmbH is Evonik Industries AG's center of excellence for analytics. It mainly serves the chemical, pharmaceutical and materials science industries with analytical services for research, process development, product development, application engineering and production. This is done using a wide variety of cutting-edge analytical techniques and many proprietary, validated processes. AQura assures clients that all its tests meet high quality standards, as several independent bodies have verified. AQura guarantees that samples are processed quickly, on schedule and on specification.

Core competency

Analytical services with a focus on pharmaceuticals and biotechnology, materials science

Top products/ services

Release analytics (also for process gases), method development and validation

Employees

Total: 230
Industriepark: 1

Contact

Ph. +49 69 305-2350
aqura.de



Bayer CropScience

Bayer CropScience AG

Bayer CropScience, the subgroup of Bayer AG responsible for the agricultural business, is one of the world's leading innovative crop science companies in the areas of seeds, crop protection and non-agricultural pest control. The company offers an outstanding range of products including high value seeds, innovative crop protection solutions based on chemical and biological modes of action as well as an extensive service backup for modern, sustainable agriculture. In the area of non-agricultural applications, Bayer CropScience has a broad portfolio of products and services to control pests from home and garden to forestry applications. Frankfurt is a key location for Bayer CropScience. It has about 700 employees researching and producing active ingredients for herbicides at the site.

Core competency

Crop protection, environmental science, seeds

Top products/ services

Fungicides, herbicides, insecticides, seeds, SeedGrowth

Employees

Total: 20,800
Industriepark: approx. 700

Contact

Ph. +49 69 305-6699
bayercropscience.com

**Core competency**

Technical services for the process and energy industries

Top products/ services

Maintenance, assembly: mechanical and electrical systems, instrumentation, controls, machines, drive

Employees

Total: 70,000
Industriepark: 800

Contact

Ph. +49 69 305-13734
ms-d.bilfinger.com

Bilfinger Maintenance Süd GmbH

Bilfinger Maintenance Süd GmbH is a leading provider of technical services for the process and energy industries. Around 800 employees advise and assist national and multinational clients in energy, biotechnology, waste management and chemical, pharmaceutical and food production. Bilfinger Maintenance Süd GmbH supplies maintenance and engineering services for mechanical and electrical systems, instrumentation, controls, machines, drives and analyzers as well as special workshop services (process equipment, surface protection, plastic, film and textile equipment).

**Core competency**

Performance materials, fine particles, global footprint

Top products/ services

Carbon black, fumed silica, activated carbon, inkjet pigments, cesium formate, aerogel

Employees

Total: 5,000
Industriepark: 50

Contact

cabotcorp.com/aerogel

Cabot Aerogel GmbH

Cabot Aerogel is a business within Cabot Corporation that is based in Boston, USA. Cabot produces and sells high performance materials in more than 40 production facilities and over 20 countries worldwide and employs approximately 5,000 employees. Being a market leader for various products like carbon black and activated carbon it serves customers in many industries, like automotive and construction. At Industriepark Höchst, Cabot produces aerogels, which have exceptionally good thermal insulation properties. Aerogel is a granular, highly porous and translucent material, used in various applications: in buildings as an insulating plaster or board and in translucent insulating fenestration and membrane roof systems. There are many other applications, like insulating deep-sea oil pipelines or as an additive for coatings.

**Cargill GmbH**

Founded in Iowa in 1865, Cargill is a multinational company based in Minneapolis, Minnesota with over 142,000 employees in 67 countries. Cargill has been doing business in Germany since 1955. Initially, its core business was trading in agricultural products. In the 1990s, however, Cargill also became a processor of agricultural commodities by building an oil mill, a vegetable oil refinery and a malting unit. It also operates in the chocolate, pectin, cultures and biodiesel markets. In Germany, the company employs approx. 1,700 people at 13 locations. Cargill has been producing biodiesel and glycerin from vegetable oil at Industriepark Höchst since September 2006.

Core competency

Agriculture, food, finance, industrial

Top products/ services

Alcohol, cocoa and chocolate, energy, grain and oilseeds, biofuels, industrial starches, malt

Contact

Ph. +49 69 305-85760
cargill.de
cargill.com

**Celanese**

Celanese Corporation, based in Dallas, Texas, USA, is a global technology leader in the production of differentiated chemistry solutions and specialty materials used in most major industries and consumer applications. With sales almost equally divided between North America, Europe and Asia, the company uses the full breadth of its global chemistry, technology and business expertise to create value for customers and the corporation. Celanese partners with customers to solve their most critical needs while making a positive impact on its communities and the world. At Industriepark Höchst Celanese employs approx. 1.000 people in production, research and development. The following business units produce at the site: Intermediate Chemistry, Emulsion Polymers, Food Ingredients and Engineered Materials.

Core competency

Chemical and technological competencies, customer oriented and innovative solutions

Top products/ services

Intermediate chemistry, emulsion polymers, engineered materials and food ingredients

Employees

Total: 7,500
Industriepark: 1,000

Contact

Ph. +49 69 45009 1777
celanese.de
celanese.com

chemfidence

A company of the  solvadis Group

Core competency

Supply chain service provider for industry

Top products/ services

Methanol, raw materials, packaging, laboratory supplies, operating materials, occupational safety

Employees

Industriepark: 35

Contact

Ph. +49 69 305-5900
chemfidence.com
shop.chemfidence.com

chemfidence services gmbh

chemfidence, a Solvadis Group company, is supply chain service provider of raw materials, industrial gases, laboratory supplies, packaging materials, work clothes, occupational safety, hygiene items, hoses and maintenance products for offices, manufacturers and government agencies. The chemfidence online shop contains over 800,000 items. Customers' ERP systems can communicate with the shop over powerful interfaces to largely automate the ordering process. chemfidence stocks the high-quality products at its own warehouse to ensure swift delivery - within a few hours inside the Rhine-Main Region. chemfidence is certified to DIN EN ISO 9001. It is headquartered at Industriepark Höchst.

CLARIANT

Core competency

Specialty chemicals

Top products/ services

Pigments, masterbatches, Licocene wax, catalysts, flame retardants

Employees

Total: 5,100 (Germany)
Industriepark: 1,400

Contact

Ph. +49 69 305 18000
clariant.de

Clariant Produkte (Deutschland) GmbH

Clariant's largest production and research site is at Industriepark Höchst. Here, it produces color-intensive pigments for car paint, display screens, architectural paint and printing inks as well as tailor-made Licocene wax. Clariant Innovation Center provides an ideal environment for intellectual value creation. About 500 researchers work on sustainable problem-solving models in the bright, transparent new building.

About 1,400 people work in research and development, production and administration in Höchst, and around 2,000 in the Rhine-Main Region. The Group is headquartered in Muttenz, Switzerland, near Basel. Clariant produces a broad range of chemical specialties, including bioethanol from agricultural waste, flame retarding agents and catalytic converters. Sales (2012): approx. EUR 5 billion.



Mobility Networks Logistics

DB Services GmbH

DB Services provides industrial services and professional facility management for commercial, office, transportation and industrial properties. DB Services has many years' experience managing highly frequented traffic stations and industrial facilities.

AIQS, the latest system service from DB Services, is a special solution for industrial customers. It creates cost-saving synergies, clearly assigns responsibilities and minimizes interfaces in accordance with defined quality standards. Service quality remains consistently high throughout this process thanks to DB Services' quality management system.

Core competency

Facility management, industrial services, system services

Top products/ services

AIQS (site management for industrial customers)

Employees

Total: 10,100
Industriepark: 22

Contact

Ph. +30 297 53400
dbservices.de



Degussa Bank GmbH

Degussa Bank – spun off from Degussa's gold and silver refinery business – was acquired in January 2007 by M. M. Marburg, a private bank. Degussa Bank runs its business independently as a separate brand and is a member of the Deposit Protection Fund of the Association of German Banks. This modern retail bank for employees offers a wide range of attractively priced services: investments, securities trading, personal loans, home finance, phone banking and online banking. With over 240 branches at many major companies, Degussa Bank is the leader of the "workplace bank" market segment.

Core competency

Retail bank for employees at companies

Top products/ services

No-fee checking account, no-fee securities account, TOPZins call account

Employees

Total: 650
Industriepark: 4

Contact

Ph. +49 69 3600-2221
Ph. +49 69 3600-5555
degussa-bank.de

**Core competency**

Catering

Top products/ services

Meeting and event catering, fine dining, event location

Employees

Total: Compass Group Deutschland GmbH: 16,500
Industriepark: approx. 150

Contact

Ph. +49 6196 478-500
Ph. +49 69 305-4007
eurest.de
hsg-service.de/main/

Eurest Deutschland GmbH

A quick snack, an inexpensive meal or a white tablecloth business lunch: EUREST DEUTSCHLAND GmbH serves up food for any palate and occasion at Industriepark Höchst. Formerly Hoechst AG's Cafeteria department, this modern catering company was spun off from its parent in 1997. Eurest Deutschland was then acquired by Compass Group Deutschland in 2001. Its 150 employees at Industriepark Höchst serve 4,000 visitors and tenant employees each year.

**Core competency**

Inorganic sulfur and zinc chemicals

Top products/ services

Inorganic acids and salts, dimethyl ether

Employees

Total:
approximately 1,500
Industriepark:
approximately 130

Contact

Ph. +49 203 5557-1
grillo.de

Grillo-Werke AG

Headquartered in Duisburg, Germany, Grillo is a family-run company with a long history. At Industriepark Höchst, it produces inorganic sulfur chemicals such as sulfur dioxide, sulfur trioxide, sulfuric acid, oleum, sodium bisulfite, sodium pyrosulfite, sodium hydrogen sulfate, dimethyl sulfate, dimethyl ether and hydrochloric acid. Other companies at Industriepark Höchst use its products as inputs and auxiliary materials. Most of its sulfur chemicals are shipped to the European market.

**HVS Versicherungsservice**

HVS Versicherungsservice provides heavily discounted property insurance, health insurance and private pension plans with special benefits. These special rates are not publicly available, but are offered exclusively to retired, former and current employees at Industriepark Höchst as well as their families. HVS Versicherungsservice is part of Marsh GmbH. An operating unit of Marsh & McLennan Companies, Marsh is the world's leading company in risk and insurance management with over 24,000 employees in more than 100 countries.

Core competency

Insurance and private pension plans for employees at Industriepark Höchst and their families

Top products/ services

Personal consultations from Mo-Fr, 8 am - 5 pm, Building C820, 3rd floor

Employees

Total: 3
Industriepark: 3

Contact

Ph. +49 69 905592-222
hvs-online.de

**Höchster Pensions Benefits Services GmbH**

Höchster Pensionskasse provides corporate or collectively bargained pension plans for companies in any industry with a collective bargaining agreement. Besides company-specific retirement programs, it also offers standardized government plans and deferred compensation. Paying into a pension enables insured employees to protect themselves against major risks (age, disability, death). Since its establishment in 1998, Höchster Pensionskasse has become one of Germany's largest multi-company providers of corporate pension plans with around 90,000 policies and 375 member companies.

Core competency

Corporate and collectively bargained pension plans

Top products/ services

Corporate and collectively bargained pension plans

Employees

Total: 110,000
Industriepark: 400

Contact

Ph. +49 69 305-21990
Ph. +49 69 305-5279
hpbs.de

■ Höchster Pensionskasse

Versicherungsverein auf Gegenseitigkeit

Core competency

Delivering occupational pension benefits on an insurance basis

Top products/ services

Whole life annuity, survivor benefits, disability insurance

Employees

Total: 130
Industriepark: 130

Contact

Ph. +49 69 305-81191
hoechster-pension-
skasse.de

Höchster Pensionskasse VVaG (PK 2)

Since its establishment in 1998, Höchster Pensionskasse has become one of Germany's largest regulated mutual insurance associations providing occupational benefits to employees for over 440 member companies and managing about 200,000 insurance contracts. Höchster Pensionskasse enables member companies to deliver pension benefits to their employees based on shop agreements or collective wage agreements.



Core competency

Industrial cleaning, maintenance

Top products/ services

Dry ice (pellets), high-pressure water cleaning, blasting, cleaning

Employees

Total: 19
Industriepark: 19

Contact

Ph. +49 69 305-52401
icefield.de

Ice Field Dry Ice Engineering GmbH

Ice Field's dry ice blasting technique is an efficient, environmentally friendly way to solve challenging cleaning problems with plants and machines and remove coatings from all kinds of surfaces. Ice Field's cleaning method differs from conventional approaches since it does not attack the surface being cleaned. Dry ice cleaning is far faster, more effective and more environmentally friendly than any other cleaning system. It produces no waste that requires disposal, either.



Infranova Bioerdgas GmbH

Infranova Bioerdgas GmbH is a company that was established by InfraserV Höchst and MainovaEnergieDienste GmbH to build a biomethane upgrading plant at Industriepark Höchst. Infranova invested EUR 5 million and is responsible for operating the plant. Since 2011, it has upgraded biogas produced from sewage sludge and organic waste at InfraserV Höchst's biogas plant to pipeline-quality methane and injected it into Frankfurt's public grid. The plant produces up to 80 million kilowatt-hours of biomethane per year – enough to supply around 4,000 households.

Core competency

Construction and operation of plants to upgrade biogas to biomethane

Top products/ services

Biomethane

Contact

Ph. +49 69 305-7571
Ph. +49 69 213-81011
infranova-bioerdgas.
com

InfraserV GmbH & Co. Höchst KG

Headquartered in Frankfurt, Germany, InfraserV Höchst operates advanced infrastructure for companies in the chemical, pharmaceutical and related process industries. InfraserV Höchst leverages its experience and capabilities in site operation, management and consulting to deliver site excellence for its customers. The company, which operates sites such as Industriepark Höchst, offers services in utilities, waste management, logistics and site services. The wholly owned subsidiaries in the InfraserV Höchst Group include InfraserV Logistics, Provisis Partner für Bildung und Beratung and Technion, a provider of pilot plant services. InfraserV Höchst provides its tenants with a reliable, efficient infrastructure so they can focus on their core business.

Core competency

Park operator, industrial services provider

Top products/ services

Site operation, site services, utilities, waste management, logistics

Employees

Total: 1,900; InfraserV-Höchst-Group: 2,700
Industriepark:

Contact

Ph. +49 69 305-6767
infraserV.com

**Core competency**

Logistics services

**Top products/
services**

Third-party logistics for dangerous goods

Employees

Total: 523
Industriepark: 443

Contact

Ph. +49 69 305-18252
infraserv-logistics.com

Infraserv Logistics GmbH

Infraserv Logistics GmbH provides value-added logistics services for the chemical, pharmaceutical and process industries at four locations in Germany. Its core business is the safe storage and flexible handling and transportation of cargo, including hazardous substances and active pharmaceutical ingredients. Infraserv Logistics also provides services in distribution and dangerous goods management, customs management, and training and consulting on GMP and dangerous goods.

**Kuraray Europe GmbH**

Kuraray Europe is the leading supplier of polyvinyl alcohol and polyvinyl butyral products in Europe. It has an annual production capacity of 70,000 tons of polyvinyl alcohol and 28,000 tons of polyvinyl butyral. The company also sells various Kuraray products such as imitation leather, dental products, functional chemicals, elastomers, industrial fibers and textile materials. Kuraray Europe is a subsidiary of Kuraray Co. Ltd. in Tokyo, Japan. The Kuraray Group generates about EUR 3 billion in annual sales with over 6,600 employees.

Core competency

Production and sale of polymers, sale of various synthetic chemicals, performance materials

**Top products/
services**

Functional chemicals, polyvinyl alcohol, polyvinyl butyral, PVB film, dental filling materials

Employees

Total: approx. 6,600
Industriepark:
approx. 300

Contact

Ph. +49 69 305-85300
kuraray.eu

**Core competency**

Phosphorus chemistry

**Top products/
services**

Phosphorus derivatives

Employees

Total: 450
Industriepark: 35

Contact

Ph. +49 60 305-3699
italmatch.it

Italmatch Deutschland GmbH

Italmatch Deutschland GmbH is a wholly owned subsidiary of Italmatch Chemicals S.p.A, a global specialty chemicals company based in Genoa, Italy. The company is a leader in polymeric, natural, synthetic and complex esters. It started out as a producer of organic and inorganic phosphorus derivatives with a fully vertically integrated value chain – from raw material production to manufacture of specialty chemicals. Italmatch Chemicals Group has a strong international presence and exports more than 70% of its output. Its customers are concentrated in the lube oil, water and oil management and plastic additives segments. The company operates five manufacturing sites in Europe (Spoleto and Arese in Italy, Zaragoza in Spain, Frankfurt in Germany and Newport in UK) and three in China. Its Frankfurt-made products are used in the pharmaceutical, chemical and agricultural industries.

**LyondellBasell**

LyondellBasell (NYSE: LYB) is one of the world's largest plastics, chemical and refining companies. The company manufactures products at 58 sites in 18 countries. LyondellBasell products and technologies are used to make items that improve the quality of life of people around the world including packaging, electronics, automotive components, home furnishings, construction materials and biofuels.

Core competency

Production and marketing of olefins and polyolefins, chemicals and fuels

Employees

Total: approx. 14,000
Industriepark:
approx. 400

Contact

Ph. +49 2236 72-1595
lyondellbasell.com

**Core competency**

HR services

**Top products/
services**

Temporary work, recruitment, on-site management

Employees

Total: approx. 1,200
Industriepark:
2 (permanent)

Contact

Ph. +49 69 305-44506
manpower.de

Manpower GmbH & Co. KG

Manpower is a world leader for recruitment, temporary employment and human resource solutions with an international network of over 4,400 offices in 80 countries. Manpower's HR services are sought out by over 400,000 companies and provided by a workforce of 4.4 million. In Germany, it has over 240 local offices to serve 4,000 clients. 1,200 Manpower HR service providers employ 25,000 new people each year, filling vacancies quickly, efficiently and effectively. This is a daily challenge that the DIN EN ISO 9001-certified company is thoroughly prepared to handle – with teams specialized in the specific requirements of individual industries, occupations and functions.

**Core competency**

Reagents for molecular biology, signal transduction

**Top products/
services**

Restriction enzymes, DNA polymerases, activation state antibodies

Employees

Total: 350
Industriepark: 17

Contact

Ph. +49 69 305-23140
neb-online.de

New England BioLabs GmbH

For over 30 years, New England Biolabs (Ipswich, U.S.) has been a leader in the discovery and production of enzymes, especially restriction endonucleases, for the life science industry. New England Biolabs GmbH is the service and logistics hub for Germany, Austria and Eastern Europe and employs 17 people at its Industriepark Höchst campus. It is also the exclusive source of products made by Cell Signaling Technology. This newly established New England Biolabs company has already grown into a leading producer of activation state antibodies for investigating intracellular signal transduction pathways.

**NOVIA**

Novia is an analytical services provider. It holds application-oriented seminars and user forums with eminent speakers for various analysis users. Novia has proven, focused expertise and can help customers develop solutions to their unique chemical analysis problems. Its seminars are scrupulously manufacturer-independent and designed for analysis professionals who want to apply their new knowledge. The company's training portfolio includes chromatography, spectroscopy, bioanalysis, food analysis and quality assurance. It also does consulting work in validation, bioanalysis and laboratory process optimization.

Core competency

Continuing education programs in chemical analysis and consulting

**Top products/
services**

Seminars and consulting in instrumental analysis, analytical method validation software

Employees

Total: 5
Industriepark: 5

Contact

Ph. +49 69 305-43843
provadis-novia.de

**Pensionskasse der Mitarbeiter
der Hoechst-Gruppe VVaG**

Pensionskasse der Mitarbeiter der Hoechst-Gruppe mainly manages occupational pension benefit plans for employees working with companies belonging to the former Hoechst AG group. PK 1's history began in 1886. Today, it is one of the leading retirement provision institutions in Germany (approx. EUR 6.8 billion in total assets). As of September 30, 2013, its portfolio comprised 127,703 pension insurance policies.

Core competency

Providing occupational pension benefits through insurance vehicles

**Top products/
services**

Administering and managing occupational pension plans

Employees

Total: approx. 130
Industriepark:
approx. 130

Contact

Ph. +49 69 305-81191
pkhoechst.de

**Core competency**

Physical plastics testing and related services

Top products/ services

Mechanical testing, thermal testing, infrared spectroscopy, fiber length analysis

Employees

Industriepark: 5

Contact

Ph. +49 69 3660 4669
polymerphysik.de

polymerphys IK GmbH

polymerphys IK is an independent provider of physical polymer testing. Most of its clients work in the development and production departments of plastics manufacturers and processors. Its specialties are material characterization and failure analyses of finished plastic parts, and the determination of mechanical and thermal material parameters in accordance with international standards. The company is involved in worldwide technical networks of excellence and outfitted with state-of-the-art laboratory equipment.

**Core competency**

Education provider, consulting firm

Top products/ services

Vocational training, continuing education, e-learning

Employees

Total: 150
Industriepark: 150

Contact

Ph. +49 69 305-81824
provadis.de

Provadis

Provadis is one of Hesse's leading education providers, with 1,500 vocational trainees and over 10,000 continuing education students in Frankfurt and Marburg. Through partnerships and collaboration, Provadis supports around 400 international clients with its expertise in vocational training, continuing education, talent and organization development and e-learning program development. Provadis School of International Management and Technology AG enables working adults to pursue internationally accredited bachelor's and master's degrees in five fields.

**Provadis Hochschule**

Provadis School is a leading college for cutting-edge manufacturing and high-end services. Its core competencies include acclaimed quality, extensive technical and industry expertise and a long track record with part-time degree programs. Working adults and high school graduates have been earning bachelor's and master's degrees with a strong focus on real world applications since 2003. Companies that partner with the school benefit from advanced talent development, hands-on training of tomorrow's professionals and academic projects on current issues. Provadis School is federally certified and all its programs are accredited. It is a subsidiary of Provadis Partner für Bildung und Beratung GmbH.

Core competency
College**Top products/ services**

Part-time bachelor's degree programs, e.g., business administration, business information management

Employees

Total: 600
Industriepark: 600

Contact

Ph. +49 69 305-41880
provadis-hochschule.de

**Provadis Professionals**

Provadis Professionals GmbH is a subsidiary of Provadis Partner für Bildung und Beratung GmbH. It places graduating vocational trainees and fixed-term workers at client companies – either in permanent positions or in temporary ones with the possibility of full-time employment. Its main mission is to recruit staff, provide a "bridge to employment" and improve the short-term availability of skilled workers. This includes developing and implementing trainee programs and training individuals as part of outplacements.

Core competency
Placement platform, bridge to employment**Top products/ services**

Placement of skilled workers for the chemical and pharmaceutical industries, temporary employment

Employees

Total: 3
Industriepark: 3

Contact

Ph. +49 69 305-7722
provadis-professionals.de

Core competency

Legal counsel

**Top products/
services**

Legal counsel on corporate and contract law, litigation, debt collection and insolvency law

Employees

Total: 6
Industriepark: 6

Contact

Ph. +49 69 305-57620
reuterlaw.de

REUTER Rechtsanwälte

Reuter Rechtsanwälte is a business law firm. It advises multinational corporations, medium-sized enterprises and small businesses on crucial issues, especially in contract law. Reuter Rechtsanwälte also serves several clients as an off-site legal department that is respected for its ability to deliver prompt, realistic solutions. Its specialties are bankruptcy law, commercial law, distribution law, labor law and real estate and building law. The firm has a strong, established debt collection practice with a global network of experienced attorneys at its disposal.

**Rockwood
Lithium**

Core competency

Global market leader for lithium, leading supplier for cesium and special metals

**Top products/
services**

Battery products, organometallic compounds, special salts

Employees

Total: 1,200
Industriepark: 103

Contact

Ph. +49 69 40126-0
rockwoodlithium.com

Rockwood Lithium GmbH

Rockwood Lithium is a global company committed to specialty chemistry. It is the world's leading supplier of sophisticated lithium compounds and is one of the major producers of lithium raw materials. Rockwood Lithium also supplies cesium compounds and special metals.

The company's product portfolio is based on continuous research and development of leading edge products and technologies. Headquartered in Germany, Rockwood Lithium serves its customers with a worldwide network of sales offices as well as production sites in Germany, South and North America, India and Taiwan. In 2012, Rockwood Lithium had a worldwide employee base of approximately 1,200 people and annual net sales of approximately EUR 335 million. Rockwood Lithium has been part of Rockwood Holdings, Inc. since 2004.



Samsung Cheil Industries

Samsung Cheil Industries is a South Korean chemical company and a member of the Samsung Group. In 2012, it had around 5,300 people on payroll and KRW 6,010 billion (approx. EUR 4.28 billion) in revenue. Cheil Industries' fashion business was sold in 2013 in order to allow the company and its 4,000 employees to concentrate on its core business segments: electronic materials and engineering plastics. In 2012, it established the Frankfurt R&D Center at Industriepark Höchst to support its strategy by developing new display products, specialty polymers and membranes for water purification purposes.

Core competency

Products for the electronics and automobile industries

**Top products/
services**

Starem (electronics chemicals), Infino (engineering plastics), Starex

Employees

Total: 4,000
Industriepark: 12

Contact

Ph. +49 69 305-31862
cii.samsung.com/english/home.jsp



Sandoz Industrial Products GmbH

Holzkirchen-based Sandoz is a world leader in generic pharmaceuticals and biotechnology. Today, Sandoz, the generics division of Novartis, is one of the world's largest suppliers of antibiotics and other biotechnological active ingredients. It offers an extensive range of active pharmaceutical ingredients and finished medicines. Industriepark Höchst hosts one of the Group's fermentation plants, which produces enzymes and cephalosporin intermediates and active ingredients.

Core competency

Pharmaceuticals (generics)

**Top products/
services**

Antibiotic active ingredients, sterile cephalosporins

Employees

Total: 26,000
Industriepark: 300

Contact

Ph. +49 69 305-17641
sandoz.com
sandoz.de

**Core competency**

Pharmaceuticals

Top products/ services

Active pharmaceutical ingredients, pharmaceutical manufacturing, focus on insulins, R&D

Employees

Total: 100,000 worldwide, 8,100 in Germany
Industriepark: 6,900

Contact

Ph. +49 180 22222010
sanofi.de
sanofi.com

Sanofi-Aventis Deutschland GmbH

Sanofi, a diversified global healthcare leader, is involved in every link of the pharmaceutical value chain in Germany – from early research to worldwide distribution. Being the headquarters of the German subsidiary, the Industriepark Höchst location plays a key role in Sanofi's operations. Not only does it hold one of the Group's largest R&D centers, it is also a strategic production and manufacturing site. This is where Sanofi investigates the basic workings of illnesses – focusing on diabetes and aging-associated diseases – and researches and develops new ways to treat them. The company also mass-produces a wide range of starting products and intermediates, active pharmaceutical ingredients, various forms of medicine and medical products (pens), mainly for insulin administration.

**Solvay Fluor GmbH**

Solvay is a multinational chemicals company headquartered in Brussels. It provides a broad range of products and services that contribute to a better quality of life. The Solvay Group employs 29,000 people in 55 countries, including around 3,000 in Germany. Solvay's fluorinated products are used in refrigeration, plastic foam production, electricity transmission and pharmaceuticals. In Frankfurt, Solvay Fluor GmbH produces Solkane®-branded hydrofluorocarbons (HFCs) for refrigeration systems and pharmaceutical products. Solvay also operates a fluoro-organic compound separation plant at Industriepark Höchst that recovers hydrofluoric and hydrochloric acid using green technology.

Core competency

Organic and inorganic fluorides, refrigerants

Top products/ services

Solkane® 134a, Solkane® 134a pharma, Solkane® 227 pharma

Employees

Total: approx. 29,000
Industriepark: approx. 90

Contact

Ph. +49 69 257586-200
solvay.de
solvay-fluor.com

**Core competency**

Conceptual design, engineering and optimization of safe chemical plants and pharmaceutical plants

Top products/ services

Technical consulting, engineering, project management

Employees

Total: 140 (Engineering & Consulting)
Industriepark: 210 (incl. Other sectors)

Contact

Ph. +49 69 797-84500
siemens.de/ec

Siemens AG

Engineering & Consulting (EC) is part of Siemens AG's Industry sector. Siemens EC offers plant and process consulting and engineering services for the process industry in the pharmaceutical and chemical sectors. Its services include conceptual design, including process simulation, optimization, engineering and construction of manufacturing, pilot and laboratory plants. It also operates a modern, 900 m² laboratory for process optimization and process safety testing.



ENERGY RECOVERY
THERMAL CONVERSION COMPUND
INDUSTRIEPARK HÖCHST GMBH

T2C

T2C owns and operates the waste-to-energy plant that has supplied a significant portion of Industriepark Höchst's steam and power since 2011. The facility runs on "refuse-derived fuel" – non-recyclable, high heat value waste that has been banned from landfills since 2005. The process is good for the environment: The refuse-derived fuel replaces fossil fuels such as coal and natural gas. T2C's plant is making a significant contribution to reducing greenhouse gas emissions. T2C is validated under the EU's Eco-Management and Audit Scheme (EMAS).

Core competency

Producing steam and power for tenants at Industriepark Höchst

Top products/ services

Disposing of refuse-derived fuel (non-hazardous, high heat value waste)

Contact

Ph. +49 69 305-5243
t2c-frankfurt.com

**Core competency**

Migrating laboratory processes in pilot plants, process development, scale-up and conversion

Top products/ services

Services in process development, broadly licensed infrastructure for operating pilot plants

Employees

Total: 47
Industriepark: 47

Contact

Ph. +49 69 305-83450
technion-gmbh.com

Technion GmbH

Technion GmbH, an Infracerv Höchst subsidiary, operates a pilot research and development facility with extensive infrastructure and human resources for building and operating pilot plants. Its process development specialists support the migration from laboratory to commercial production, scale-up and conversion from batch to continuous processing. Since Technion is licensed as a pilot research facility, pilot plants can start operation immediately – including 24/7 shift service. Besides its technical workshops, the company can also produce laboratory, pilot plant and industrial glassware in an in-house scientific glassware shop. Technion is certified to DIN EN ISO 9001, 14001, 15378 (GMP).

**Core competency**

Plant safety throughout the life cycle for the chemical and process industries

Top products/ services

Safety consulting, plant inspections, data management and documentation

Employees

Total: 190
Industriepark: 75

Contact

Ph. +49 69 305-5731
tuev-sued.de/chemie-service

TÜV SÜD Chemie Service GmbH

TÜV SÜD Chemie Service provides plant safety services for the chemical and process industries. Its national and international experience, together with all the advantages of interdisciplinary system solutions, adds lasting value for customers.

TÜV SÜD Chemie Service supports plants throughout their life cycle and specializes in consulting for plant owners, monitoring, quality assurance and data management (DAMAS). The company, which emerged from Bayer AG's Technical Testing and Inspection Section, Signum GmbH and Materials Engineering / Welding at Industriepark Höchst, is accredited not only under § 22 of the German Regulation on Plants Operated with Water Pollutants (VAwS), but also as a notified body, a certified inspection agency (ZÜS) and a testing laboratory under DIN EN ISO 17025.

**Westfalen Gruppe**

The Westfalen Group is an energy sector technology company operating internationally with 22 subsidiaries and associates. The group has over 20 production sites located in Germany, France, the Netherlands, Switzerland and the Czech Republic. In the gases sector the group produces and distributes around 300 gases and gas mixtures for industry and trade, food manufacturing, laboratory, pharmaceutical and medical applications. In addition the family-owned business, which was founded in Münster in 1923, operates in the energy supply and service stations sectors. In 2012 the Westfalen Group generated sales of over EUR 1.9 billion. In autumn 2013 the group, together with other medium-sized gas manufacturers, commissioned a carbon dioxide purification and liquefaction plant at Industriepark Höchst.

Core competency

Gas, energy supply, service stations

Top products/ services

Oxygen, nitrogen, argon, carbon dioxide

Employees

Total: 1,300

Contact

Ph. +49 695-309
westfalen-ag.de



FOCUS ON SUSTAINABILITY

BY PEOPLE FOR PEOPLE

Industriepark Höchst in western Frankfurt is one of the epicenters of chemical and pharmaceutical research and production in Europe. This breathing, productive and forward-looking idea factory is powered by people. They are the engines of progress, innovation and growth. Their ideas are tomorrow's future: better everyday products, more efficacious medical cures and treatments, a cleaner climate and environment. Between its services for tenant employees and the huge diversity of attractive jobs and training opportunities, Industriepark Höchst is a great place to work.

Join us to take a look behind the scenes at one of Europe's most dynamic industrial sites!

BECAUSE THE FUTURE BEGINS TODAY.

What exactly is sustainability? At Industriepark Höchst, it encompasses not just **good stewardship of the climate and environment** and careful balancing of community and business interests, but also the **respectful treatment of employees**. Their health and safety are paramount. People and the environment are the foundations of our future. That is why all the companies at Industriepark Höchst have embedded sustainability into their corporate philosophy. By conducting business in a way that respects the environment and conserves resources, they are doing their part to pass on a healthy planet to future generations.

Innovating the way to a cleaner climate

All the research and production firms at Industriepark Höchst are voracious consumers of energy and resources such as water. Good thing that the individual companies and site operator Infraser Höchst think carefully about ways to use energy more efficiently. Energy efficiency is a rich field for resource



Did you know?

Around 2,000 gigawatt-hours of electricity and 3,400 gigawatt-hours of heat in the form of process steam are consumed at Industriepark Höchst every year – enough to supply 670,000 households with electricity or around 170,000 single-family homes with heat.



conservation and climate protection. Investments to expand and optimize energy generation are constantly being made at Industriepark Höchst. Industrial energy innovations help utilize existing fuels even more efficiently and produce energy in entirely new ways. Industriepark Höchst's tenants are committed to living up to their environmental responsibilities and implement well-defined environmental policies. To help them achieve their objectives, InfraserV Höchst provides access to expertise and a broad portfolio of services: from emissions trading to hydrogen and fuel cell technology and cutting-edge wastewater treatment to efficient energy generation and management systems right up to occupational health and plant safety. However, every one of the 22,000-plus employees at Industriepark Höchst understands that environmental protection can start very small – because energy conservation begins with them.

Co-generation and heat recovery – A high-powered combination

Conventional power stations generally release vast quantities of unused heat into the atmosphere through cooling towers. But can't the heat be put to better use? It certainly can: The co-generation plants at Industriepark Höchst capture both electrical and thermal energy. This raises their fuel utilization rates to around 90 percent. And since site operator InfraserV Höchst utilizes co-generation across the board, the electricity generated at the park has **significantly lower CO₂ emissions** than the power mix in Germany.



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Carbon footprints – Leave no (unnecessary) trace

A carbon footprint refers to the number of tons of carbon dioxide generated by an activity or organization. Every German, for example, statistically produces around eleven tons of carbon dioxide per year. Transportation is a major factor in carbon footprints. Manufacturing companies can shrink their carbon footprint by instituting green production processes and using resources efficiently.

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Even the waste heat from chemical production and waste incineration plants is injected into the heat distribution system. All told, heat recovery supplies around 20 percent of the process heat required by production plants at Industriepark Höchst. This cuts down on coal and natural gas consumption and reduces CO₂ emissions.

Waste-to-energy – When trash is power

Maximizing fuel yields is not only efficient and eco-friendly, it also makes good business sense. But you can take this approach one step further – and generate energy from non-recyclable waste. At Industriepark Höchst, for example, refuse is incinerated at the waste-to-energy plant to produce **heat and power**. Waste that rots, but does not burn readily, can be used to make **biogas**, which is fired to generate energy.

GoGreen! – For a cleaner planet

The companies at Industriepark Höchst work tirelessly to minimize their carbon footprint, too. Pharmaceutical company Sanofi, for example, has steadily scaled back the power, water and steam consumption of its Höchst location. Thanks to its **GoGreen! initiative**, the healthcare company succeeded in having its entire Frankfurt-Höchst site certified to the international ISO 50001 energy management standard.

Bayer, Celanese and Clariant are low-carbon paragons as well. They invest heavily in streamlining energy consumption, waste management, air emissions and water consumption. Older plants are retrofitted with state-of-the-art equipment, while new plants receive best-in-class processes and technologies.

Environmental and sustainability reports can be downloaded here:

http://www.ihr-nachbar.de/de/home/unsere_umwelt/umweltberichte/umweltberichte.html





THE PEOPLE FACTOR – HEALTHY WORK-LIFE BALANCE

Responsibility for people, their health, safety and personal development is essential to the sustainability strategy adopted by site operator Infracore Höchst and many tenant companies. Employees, after all, are a key success factor in building a strong foundation for future generations.

Great services for good health

At Industriepark Höchst, health trumps all – which is why the Industrial Clinic isn't just for emergencies. While it does provide emergency on-call service and immediate medical treatment, its mission also includes preventive healthcare. Occupational physicians make sure work stations are ergonomically designed and teach health-related seminars: from corporate health promotion to stress management. The Clinic's services range from vaccinations and screenings to physical therapy and preventive aerobics and exercise classes.

The park's health services even include a **Site Health Center**. Here, employees can build strength and endurance in state-of-the-art exercise facilities. If people want to let off steam after a long day at work, they can pick the perfect exercise class from an extensive list or have a team of personal trainers and sports scientists put together a custom training plan. Employee health is important to the park's tenant companies, too. That

is why their corporate health management strategies are built around occupational medical standards and services as well as internal programs on nutrition, exercise and stress reduction.

Breaks – Time to rest, relax and recharge

A host of services make Industriepark Höchst a great place to work for tenant employees. After all, hard workers need a break now and then. Four large cafeterias, cozy cafés and convenient kiosks are well-stocked with food and beverages. Outdoor nooks are excellent places to unwind during breaks.



Did you know?

4,000 guests are served food and beverages every day at Industriepark Höchst. 72,000 pizzas, 30,000 sausages and 62,000 desserts are ordered every year. 6 tons of coffee, 100 tons of potato products, 70,000 liters of milk and 15 tons of pasta are purchased annually.

PIONEERING IDEAS FROM THE START

Behind many success stories are people with extraordinary ideas and an enterprising spirit. This is true today – and was true over 150 years ago, when Theerfarbenfabrik Meister, Lucius & Co. was established in Höchst in 1863. Initially a family-run business, the young factory grew into the multinational Hoechst AG. In 1997, the chemical company's parent plant was reorganized into Industriepark Höchst with over 90 tenants.



This painting shows the Höchst factory in 1873.

Theerfarbenfabrik (literally “tar dye factory”) was founded in 1863, at one of the high points in Germany’s industrial revolution. Lower customs barriers and better transportation networks had jump-started the industrialization process, driven by the mining and textile industry in England, France and Belgium. In fact, gas coking plants for hard coal supplied the raw materials for the first wave of synthetic tar dyes: hard coal tar and the aniline oil extracted from it. For young chemist Eugen Lucius, the new synthetic dyes posed a scientific challenge. He joined forces with Carl Friedrich Wilhelm Meister, who had the necessary business acumen. And so the success story began.

Red dye was a hit

The first successful product made and shipped from present-day Industriepark Höchst was fuchsine, a magenta dye. It is the reason why the company and its successor, Hoechst AG, were nicknamed “Rotfabrik” (“red factory”). The synthetic dye put the factory on its growth path. Many more world-famous dyes followed.

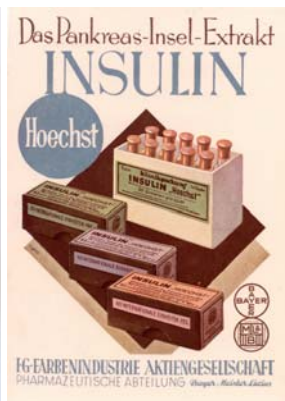


Did you know?

In 1864, French Empress Eugénie attended the Paris Opera in a dress colored with the world’s first light-fast dye. Aldehyde green from Höchst captured the public’s imagination and helped take the fashion industry in a new direction.



Antipyrin medicine package



Insulin advertisement



Researcher in the laboratory

In the 1880s, the dye factory graduated to a full-blown chemical company and began producing drugs. One of its medical blockbusters was antipyrine, a fever reducer and cold medicine. This was a glorious period in the company's history until World War I. German dyes and drugs were known worldwide. Germany was the "pharmacy of the world".

Milestones in drug research

Innovations and contacts with the era's leading researchers broadened the company's horizons. Among other things, it collaborated with Nobel laureates Robert Koch, Emil von Behring and Paul Ehrlich. Another long-awaited milestone: the first-ever insulin preparation. In 1924, Farbwerke Hoechst, formerly known as Meister Lucius & Brünig, received a license to produce the lifesaving medication. This marked the start of an unprecedented career.

Petrochemicals push technological envelope

Once Hoechst AG was re-established in 1951, the huge technological momentum provided by petrochemicals propelled the site forward after many difficult war-torn years. It began to produce modern products that simplified and enriched our lives, such as dyes, plastics or drugs. Despite suffering setbacks related to the oil crisis, Hoechst AG experienced enormous success in the late 1980s. However, global market structures confronted the chemical giant with a new challenge in the 1990s, and the complex corporation reorganized into an array of highly focused independent companies. Industriepark Höchst was born. Today, the industrial park is an international model of site excellence. It illustrates how to broadly integrate and competitively apply new technologies, how to attract and retain innovative manufacturers and how to sustainably supply utilities and protect the environment.

INDUSTRIAL HISTORY – UP CLOSE AND PERSONAL

Around 100,000 people visit Industriepark Höchst every year. They include countless customers from Germany and abroad, students on class trips, and neighbors and clubs from the local community.

Park operator Infracorv Höchst offers visitors' programs for various occasions. In 2013, numerous events marked the site's **150th anniversary** under the banner of „People. Site. Value“. Many visitors seized the opportunity to gain a better appreciation of the site's size and innovativeness on a park tour that covered everything from research facilities to production plants to environmental protection equipment.

„Zeitstreifen“ is a permanent exhibition at the East Gate visitor center that tracks the history of the site from 1863 to the present day. It takes visitors on a voyage of discovery through

industrial history, illustrated by displays, videos and exhibits from the chemical, pharmaceutical and biotechnology industries and punctuated by exciting stories about the evolution of Industriepark Höchst.

Zeitstreifen permanent exhibition

East Gate visitor center

Opening hours:

Monday to Thursday, 7:00 am to 4:30 pm,

Friday, 7:00 am to 3:00 pm





BACK TO **NATURE**

Every day, more than 25,000 people pass through the gates to Industriepark Höchst; over 1,000 trucks roll into one of Europe's most important chemical and pharmaceutical sites; containers float in on the Main River or arrive by train at Industriepark Höchst's large container port. With all this traffic, you need extensive infrastructure to prevent congestion and keep employees safe and well looked-after – from a dedicated power station to the Industrial Clinic to a university. There's no question: stepping into Industriepark Höchst is like entering a small city!

INDUSTRIEPARK HÖCHST – A CITY UNTO ITSELF

Most people walk or take public transportation, cars or bicycles to Industriepark Höchst. When hunger strikes, they can choose among kiosks, small shops and four large cafeterias. Roughly 170 employees ensure safety and security at Industriepark Höchst night and day. This extensive process begins with check-ins at the entrances. Visitors and vehicles have to be inspected; plants have to be monitored 24 hours a day. Emergency response teams and firefighters respond to incidents within minutes.

A GREEN WORKPLACE

It is a mistake to believe Industriepark Höchst is nothing but buildings, factories, plants and roads. Nearly 30 percent of the park's total area consists of green oases. Landscapers tend parks, trees, flowers, ponds, fountains and all the animals that call these verdant areas home.

Industriepark Höchst contains eight parks. They are welcome places of refuge for all who work here. Designing them, however, is a daunting challenge. The high-tech industrial environment imposes certain limitations. Shrubs placed near pipe bridges, for example, cannot grow too high or wide. Airborne pollen and seeds can easily clog up the sensitive filters employed by many facilities. Despite these challenges, Industriepark Höchst is a truly green workplace. Not only does it feature well-manicured landscaping for tenants, employees and visitors as well as vacant plots for future tenants, but it also meets strict nature conservation, species preservation and environmental protection standards.



The green industrial park:

4,500 trees

130 birdhouses

Planted in 2012: 17,000 pansies and 6,600 summer flowers covering 37 different types

BICYCLE TRAIL AROUND INDUSTRIEPARK HÖCHST

Biking around Industriepark Höchst is not your everyday ride. But it is an intriguing prospect nonetheless. This is, after all, where nature, neighborhoods and manufacturing meet. Nestled between the Frankfurt Greenbelt and the Rhine-Main Regional Park, Industriepark Höchst is a city unto itself - and a mystery for many outsiders. The 10 kilometer bike route provides valuable insights and information. The colors of the color wheel, referencing the park's origins as a dye factory, guide cyclists from stop to stop. Covering 13 stages, the trail crosses the Main River and passes by downtown Höchst and the Schwanheimer Düne wildlife reserve.

To learn more about the joint project between the Rhine-Main Regional Park, the Frankfurt Greenbelt and Infraser Höchst: http://www.ihr-nachbar.de/de/home/ihr_nutzen/radweg/radweg.html



WINNING COMBINATION

After graduating from college or a training program, people used to simply work their way up the corporate ladder until taking a well-deserved retirement. All that has changed in today's world of lifelong learning. Provadis at Industriepark Höchst is Hesse's largest provider of vocational training, professional development and career-integrated education.

VAST RANGE OF TRAINING PROGRAMS

Once people graduate from school and enter the workforce, they often change their personal and professional goals. But how can they achieve them? Simple: Current, extensive qualifications and recognized diplomas are the secrets to success in today's labor market. The Provadis Group offers countless programs for building a career – from vocational training at partner companies to personalized programs such as professional development seminars, preparatory e-learning and distance education classes to executive degree programs.

Education at Industriepark Höchst by the numbers

- Around 1,400 vocational trainees
- Over 40 vocational training programs
- Roughly 100 partner companies
- Continuing education for over 10,000 people per year
- More than 800 students at the Provadis School



Career-integrated degrees from Provadis

The Provadis School specializes in executive and career-integrated degree programs. In these programs, active professionals, vocational trainees and high school graduates can easily combine work and school. A private, federally accredited institution of higher learning, the Provadis School is the preferred partner for applied research and consulting and for developing the skills of managers and specialists.



For details, visit:
www.provadis.de and
www.provadis-hochschule.de

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Locations: Frankfurt am Main and Marburg

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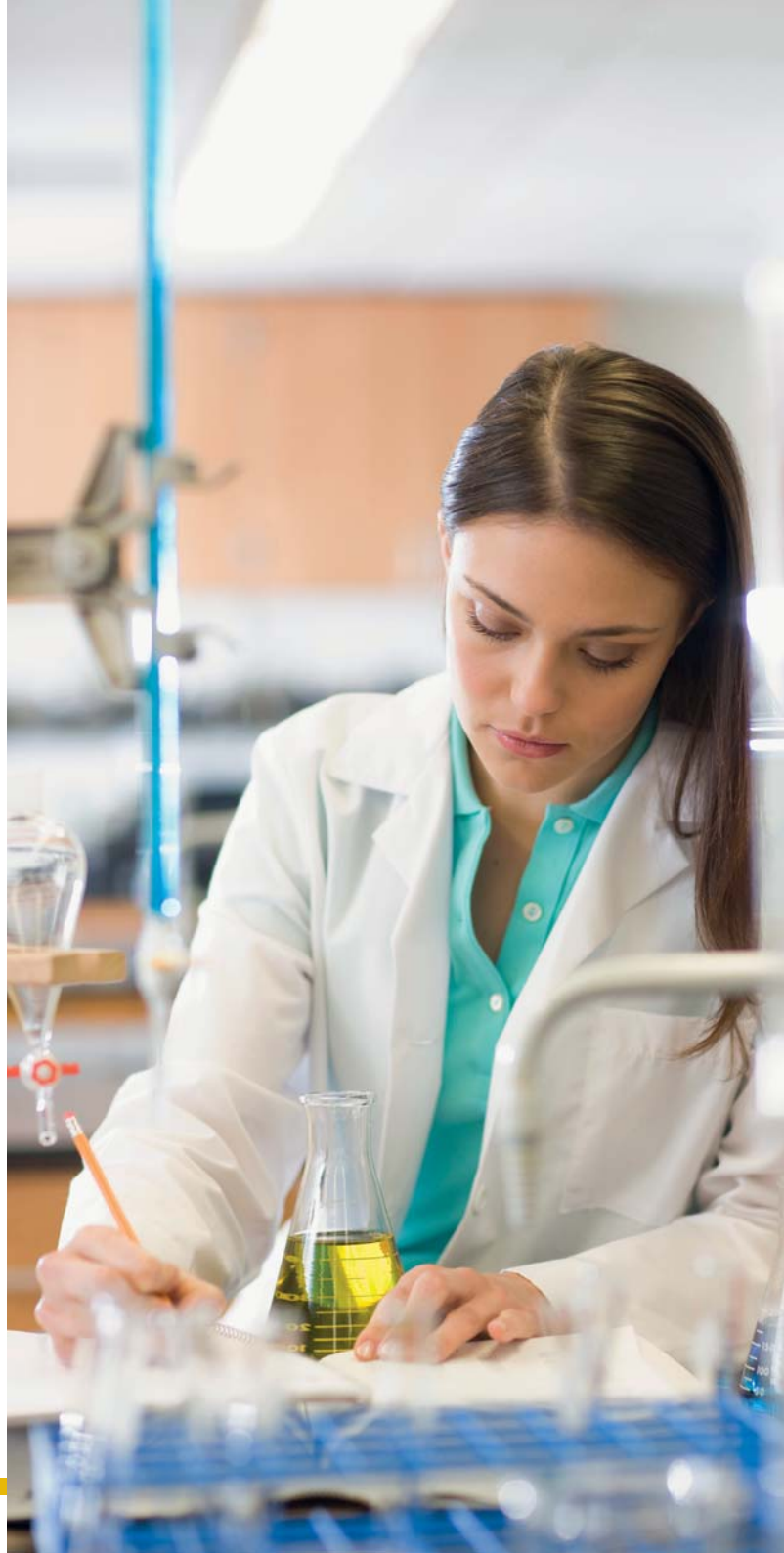
HANDS-ON FROM THE START

Many university students deliberately choose a career-integrated degree program. The main benefit: close integration of theory and practice.

COMBINING CLASSROOM TEACHING WITH ON-THE-JOB EXPERIENCE

Which university is right for me? Where will I get the best preparation for my career? These are important questions for high school graduates. Some young people reject conventional “chalk and talk” teaching in favor of career-integrated approaches. However, even these hands-on programs can differ significantly from one university to the next. Many consolidate the classes into multi-month blocks. This may seem convenient, but the long interruptions prevent students from steadily contributing to a project during their hands-on phases at the company.

This problem is avoided entirely at the Provdavis School at Industriepark Höchst. This career-integrated degree program combines classroom teaching with work experience at tenant companies. Students attend class on Tuesday afternoons and Saturdays, and intern at a business at the park on the other days of the week. “We write field reports and case studies on our firm and present its products – including the marketing strategy,” said a graduate of the Business Administration program. “This helps us practice entrepreneurial thinking.” Since the students work in the departments continuously, they can be much more deeply involved in the business. They often take on responsibility for projects at an early stage.



HERE'S TO GOOD NEIGHBORS

Good relationships are built on mutual understanding and acceptance. That is why the companies at Industriepark Höchst – and particularly park operator Infracore Höchst – engage in community outreach and sponsor numerous activities around the park.

INDUSTRIEPARK HÖCHST IS MORE THAN AN INDUSTRIAL ESTATE

Entrepreneurs at the Höchst chemical site have always felt a deep commitment to their employees and local communities. Infracore Höchst carries on this 150-year-old tradition on its own behalf and on behalf of the park's tenants through transparent communication and extensive sponsoring. Tenant companies, for their part, regularly send representatives to report on new developments in the public meetings of the "Industriepark Höchst Neighborhood Forum".

"To succeed, we need to cultivate close, strong relationships with members of our local community."

Project funding

Many associations and institutions receive funding for social and cultural projects thanks to a balanced donation program. Schools, clubs or institutions can apply for assistance with their programs. Donation decisions are made by a group of experts (Donations Committee).



Cultural support

Many events in and around Höchst are intimately connected to Industriepark Höchst and receive support in the form of patronage and sponsorships. Prime examples include the annual Höchst Castle Festival or the Industrial Heritage Trail of the Rhine–Main Region. Through visits, excursions, guided tours and information placards, visitors come to understand and appreciate how everything in the region works together, based on specific examples.

For the irrepressibly curious, Industriepark Höchst holds an annual "Long Night of Industry" and regular open house days to provide a glimpse into various production plants and research facilities. The park's operator has a passion for cinema, too. In the Peter Behrens Building, it hosts screenings of movies to delight the young and old, curated by Filmtheater Valentin.



Information at your fingertips

If you have specific questions or want to learn more about Industriepark Höchst, you can visit the German-language neighborhood website at www.ihr-nachbar.de 24 hours a day or call the community hotline at +49 (0) 69-305-4000.



A heart for Höchst

The companies feel a particular bond with Höchst, the “birthplace” of the first factory over 150 years ago. They therefore actively support Pro Höchst, an initiative to strengthen the local community. It aims to improve the image, profile and attractiveness of the Frankfurt suburb. Höchst reached a small milestone on its journey to greater fame: In June 2013, it joined the German Timber Frame Road Association, one of Germany’s leading tourist routes. Downtown Höchst, St. Justinus’ Church and Höchst Castle are now being advertised across Germany in print and online publications.

Reaching out to kids

Children must be at least 14 to visit Industriepark Höchst. However, younger kids are interested in science and chemistry, too. To reach out to them, Infraserv Höchst published two children’s books that describe Industriepark Höchst for different age groups. In “Fly, Little Green Balloon” for ages 3 to 6, a balloon named “Lufti” takes a voyage of discovery through Industriepark Höchst and learns a lot about what industrial park managers do. “The Mysterious Old Chest”, written for elementary school children, explains the world of chemistry and Industriepark Höchst through exciting, humorous and age-appropriate storytelling. Children and teenagers can also participate in various interactive programs such as Research Camp.



For details, visit
www.ihr-nachbar.de

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