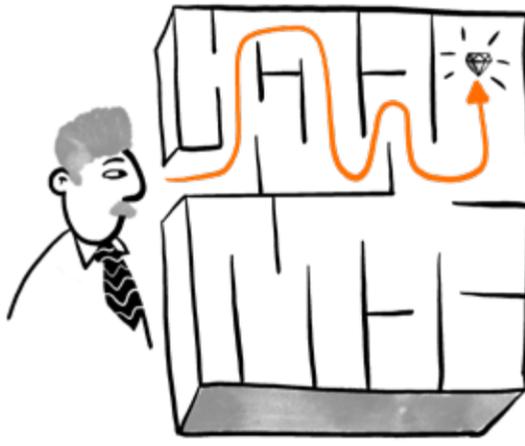


# Industry Insights

# **Industrial Engineering**

Exploring Technology Trends and Innovations



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# About the Industry Insights reports

Each Industry Insights report focuses on the emerging technologies within a specific industry. Enriched with original data from the [Valuer platform](#), the publications provide information that can help companies accelerate within a rapidly-changing environment.

## What you can find in this report:

- Overview of 5 industrial engineering sub-sectors;
- Technology trends and developments in the industrial engineering industry;
- Innovative companies that develop cutting-edge industrial engineering technologies.

## How we made this publication:

- We searched Valuer's [Industry tool](#) to explore different sub-sectors;
- We used the [Technology tool](#) to find trending technologies;
- Using the [tool for finding companies](#) we selected ones we think are very innovative.

Limited by how much information we can squeeze into one magazine, we only included short descriptions of the companies we found. If you're interested in learning more, we invite you to try the Valuer platform.

[Try Valuer for free](#)

## From the [Valuer Platform](#):

Average  
Funding

**19,077,111 USD**

Average funding of the industrial engineering companies

Average  
Founding

**2015**

Average year of founding of the industrial engineering companies

Most Common  
Company Size

**1-10 employees**

(45.4% of companies)

Most common company size of the industrial engineering companies

# Top Trends in the Industrial Engineering Industry

On the constant brink of evolution, the engineering industry is always adapting to new technology that enters the market, enabling innovation. Automation is one of the largest incentives enterprises implement, as it optimizes their production. In 2017, McKinsey estimated that automating workflow tasks can increase productivity by up to 1.4% annually. Additionally, an increase in overall data and data diversity will propel automation adoption even more. Gartner predicts that by 2025, 70% of organizations will implement structured infrastructure automation to deliver flexibility and efficiency, up from 20% in 2021.

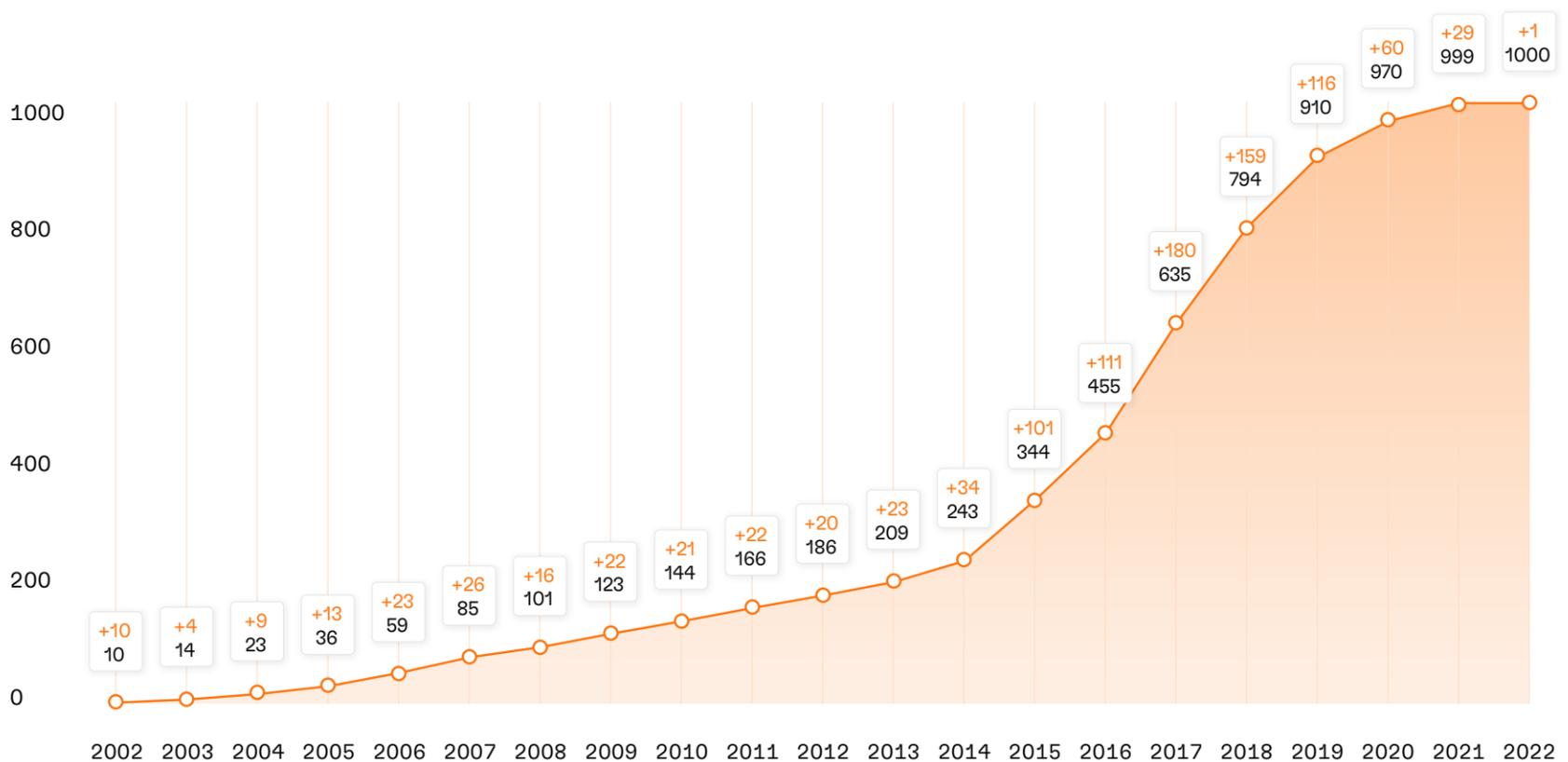
In a more general sense, automation is emerging as a significant value proposition of a complete Industry 4.0 digital transformation. AI, cloud infrastructure, and big data are other technologies that

would play a crucial role in the digital transformation, with IoT having the largest impact. According to a Statista survey, in 2020, 72% of its respondents acknowledged IoT to be the most impactful technology within their organization. Market-wise, Industry 4.0 is projected to grow from \$64.9 billion in 2021 to \$165.5 billion by 2026, at a CAGR of 20.6% for the forecasted period (Markets and Markets).

Consequently, industrial engineering has become a popular occupation among the working population. According to the US Bureau of Labor Statistics (BLS), the employment of industrial engineers is projected to grow by 14% from 2020 to 2030, faster than the average for all occupations. Additionally, about 23,300 openings for industrial engineers in the US are projected for each year, on average, over the decade.

From the Valuer platform:

Growing number of industrial engineering companies throughout the years.



# Using the Valuer Platform to Find Innovation Hotspots

There are many ways you can use the Valuer platform to look for innovative technologies that fit your business.

Our starting point when making this report was the [Technology tool](#). We used it to explore different tech trends relevant to the Industrial Engineering industry and learn more about them—from the potential benefits they bring to market predictions and sustainability applications.

Once we selected five technologies that will be the focus of this publication, we used the [Company Search tool](#) to find young, innovative companies. In the following chapter, you will find a short description of the five companies we selected. If you are interested to learn more, we invite you to sign up for a free trial on the Valuer platform and request more information about the ones that attracted your attention.

[Try Valuer for free](#)

10 countries with the most Industrial Engineering companies on the [Valuer platform](#):



# Trending Technologies

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3D Printing

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Cobots (Collaborative Robots)

# Trending Technology:

## 3D Printing

3D printing, or additive manufacturing, is a technique for building three-dimensional objects by depositing, connecting, or solidifying material under computer control. Typically, the filament material (plastic, metal, resin, or chocolate) is applied layer by layer, resulting in complex shapes.

[Click here to get more info](#)

Data from the [Valuer platform](#):

Average year of founding in the 3D Printing companies:

**2014**

Average funding of the 3D Printing companies:

**12,537,189 USD**

Maximum funding of the 3D Printing companies:

**250,000,000 USD**



fictiv

Company highlight:

**Fictiv**

Year of Inception:	2013
Company Stage:	Growth/Expansion
Team Size:	205
Location:	San Francisco, CA, US
Funding:	192,600,000 USD
Website:	<a href="http://fictiv.com">fictiv.com</a>

Fictiv is a digital manufacturing company that provides an ecosystem for delivering high-quality parts at unprecedented speeds. The company specializes in creating custom parts on-demand and helping clients accelerate new product introduction. This on-demand service is enabled through the company's network of manufacturing plants, offering services like CNC machining and injection molding.

Fictiv was founded in 2013 by industry experts Dave Evans and Nate Evans with the goal to break the barriers that prevent so many new hardware products from reaching the hands of customers. The company has offices in San Francisco, US, and Panyu, China, employing over 200 people.

[See company profile](#)

# Trending Technology: **Big Data in Industry 4.0**

Big data is a field that consists of large, complex, and voluminous data sets and the processes and methods used to analyze and extract information from them.

The technology plays a crucial role in Industry 4.0, analyzing sensor data from production machinery and providing valuable insights for smart factory management.

[Click here to get more info](#)

Data from the [Valuer platform](#):

Average year of founding in the Big Data in Industry 4.0 companies:

**2015**

Average funding of the Big Data in Industry 4.0 companies:

**14,355,426 USD**

Maximum funding of the Big Data in Industry 4.0 companies:

**87,800,000 USD**



Company highlight:

## **Datanomix**

Datanomix has developed a manufacturing analytics platform focused on Industry 4.0 and IIoT-driven digital transformation. The platform leverages ML to parse data directly from CNC machines as they produce parts, delivering an intuitive analytics framework so clients can understand the underlying drivers of cost, process variation, and efficiency across the manufacturing process.

Year of Inception:	2016
Company Stage:	Go-To-Market
Team Size:	28
Location:	Nashua, NH, US
Funding:	9,035,000 USD
Website:	<a href="http://datanomix.io">datanomix.io</a>

The company was founded in 2016 by John Joseph and Greg McHale, trained engineers who developed a data-powered system that leverages in-situ equipment insight to improve performance. Datanomix operates from its premises in Nashua (NH), employing a team of 28 members.

[See company profile](#)

# Trending Technology: **Internet of Things (IoT)**

Internet of Things (IoT) is a system of physical objects embedded with sensors, software, and data processing abilities. A gateway connects the devices to the cloud and allows real-time communication with other devices over the Internet.

As such, organizations can optimize their operations, enhance customer service, and improve their decision-making, improving the value of their business.

[Click here to get more info](#)

Data from the [Valuer platform](#):

Average year of founding in the Internet of Things (IoT) companies:

**2016**

Average funding of the Internet of Things (IoT) companies:

**9,665,872 USD**

Maximum funding of the Internet of Things (IoT) companies:

**166,000,000 USD**



Company highlight:

**Relayr**

Year of Inception:	2013
Company Stage:	Established
Team Size:	262
Location:	Berlin, Germany
Funding:	66,794,000 USD
Website:	<a href="https://relayr.io">relayr.io</a>

Relayr is an IIoT (Industrial Internet of Things) company that offers software, hardware, and consulting services to help businesses adopt industrial digitalization and improve their business outcomes. The company provides a SaaS platform that offers customers features such as IoT device management, edge services, historical data, anomaly detection, and data streaming, among others.

The company was founded in 2013 by industry experts Josef Brunner and Jackson Bond to help customers reap the benefits of IIoT by delivering solutions that meet their challenges, risks, and outcome needs. Relayr is headquartered in Berlin, with additional offices in Atlanta, Boston, Burnley, Munich, and Katowice, employing over 200 staff from 20 different nationalities.

[See company profile](#)

# Trending Technology:

## Digital Twin

Digital twin is a digital representation or a virtual model of a real-world process, object, or a system.

Digital twin technology is powered by real-time data from sensors and Internet of Things (IoT) technology and uses machine learning (ML) and artificial intelligence (AI) to provide data analytics.

[Click here to get more info](#)

Data from the [Valuer platform](#):

Average year of founding in the Digital Twin companies:

**2016**

Average funding of the Digital Twin companies:

**11,556,829 USD**

Maximum funding of the Digital Twin companies:

**198,500,000 USD**



Company highlight:

## Nomoko

Year of Inception:	2015
Company Stage:	Go-To-Market
Team Size:	38
Location:	Zurich, Switzerland
Funding:	2,900,000 USD
Website:	<a href="http://nomoko.world">nomoko.world</a>

Nomoko is an IT company that provides an ecosystem that turns spatial data and analysis into real-world solutions that clients can utilize to enhance their business operations. The company's Mirror World 3D platform generates highly detailed digital twin cities, which are used to build applications, analytics, and simulations.

Nomoko is a Swiss company founded in 2015 by Nilson Kufus, Vincent Pedrini, and Kevin Mersch with the goal to build an interface that will connect the physical and digital worlds, powering digital transformations. Currently, Nomoko operates from Zurich and Luxembourg, employing more than 38 people.

[See company profile](#)

# Trending Technology: **Cobots (Collaborative Robots)**

Cobots, or collaborative robots, are specialized robots designed to work alongside humans within a shared space.

With features such as compliant grippers and collision-avoidance capabilities, cobots have multiple applications, such as enabling automation in industrial environments or completing specific tasks including welding and precision picking.

[Click here to get more info](#)

Data from the [Valuer platform](#):

Average year of founding in the Cobots companies:

**2015**

Average funding of the Cobots companies:

**\$19,634,407 USD**

Maximum funding of the Cobots companies:

**\$270,000,000 USD**



Company highlight:

**Robotiq**

Year of Inception:	2008
Company Stage:	Growth/Expansion
Team Size:	138
Location:	Quebec, Canada
Funding:	23,798,080 USD
Website:	<a href="http://robotiq.com">robotiq.com</a>

Robotiq is an automation machinery manufacturing company that specializes in building hardware and software tools for the collaborative robotics market. The company works with a global network of connected robot experts to provide flexible, plug-and-play robotic grippers and sensors that simplify and accelerate their customer's projects.

The company was founded in 2008 by Samuel Bouchard, Vincent Duchaine, and Jean-Philippe Jobin with the mission to free human hands from tedious tasks so that companies and workers can focus on other areas to create value. The company is headquartered in Quebec, Canada, and employs more than 130 people.

[See company profile](#)



# About Valuer

## Say hello to your personalized AI discovery engine

Valuer is your way of keeping your finger on the beating pulse of innovation and opportunity. You can train it to spot trends. It can find new acquisition targets or partners. You can set disruption triggers for your industry or simply keep you up-to-date with the latest innovation—from anywhere and at any time.

## Turn up the volume and turn down the noise

Valuer is built to learn and grow with your business. With a personalized AI, you'll have access to the greatest volume of insights and opportunities—without any unnecessary noise that isn't relevant to your overall business.

## A digital brain, working with the heart of your business

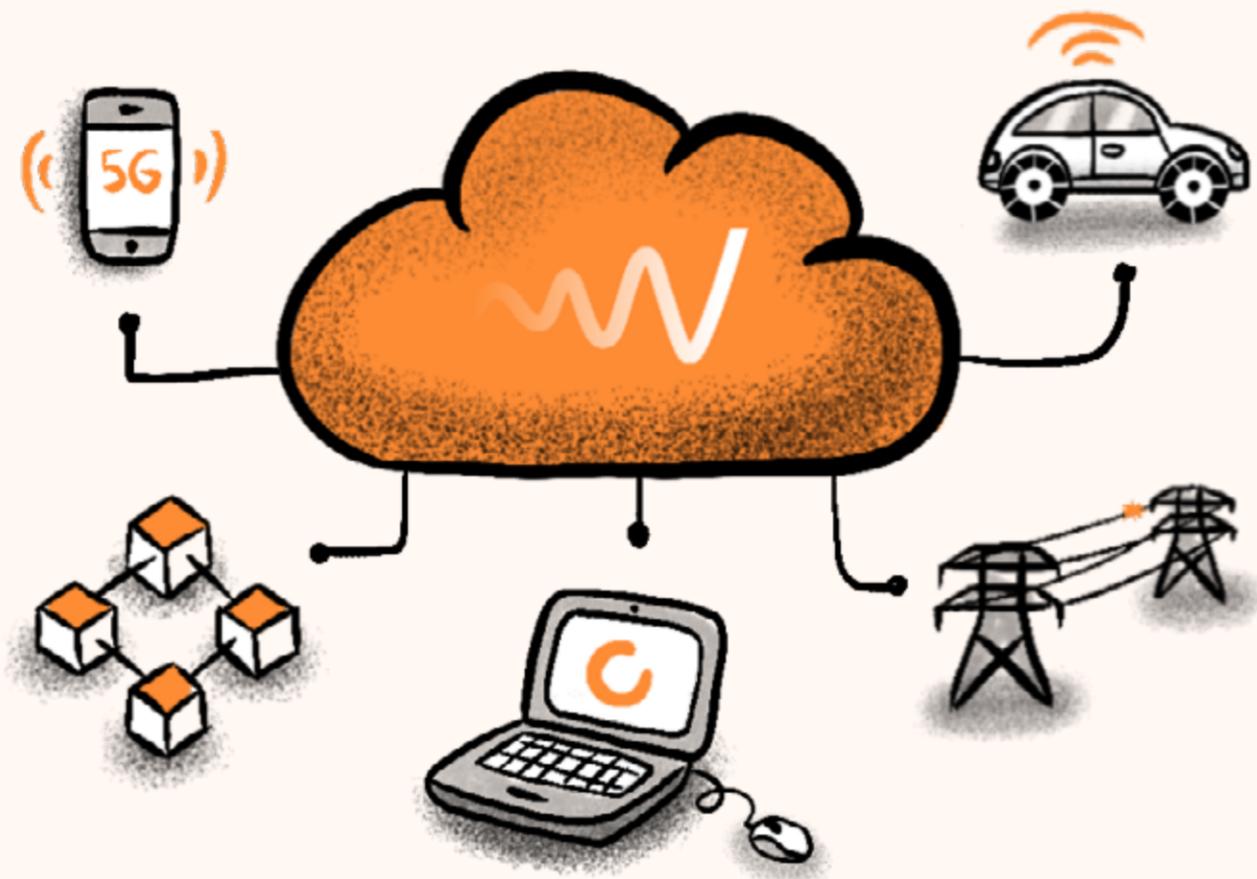
At its core, Valuer is a digital ecosystem driven by AI. However, it is designed to work in partnership with your broader business goals. It also supports the inclusion of collaborative work, enabling your team to capture market knowledge and manage partnerships more effectively and efficiently.

## Set it and forget it

Valuer is always on, always collecting and always curating the most lucrative opportunities and insights for your business. It continuously learns from your input and constantly refines its understanding of your business and innovation needs.

# Find innovative technologies that will give your company competitive advantage

Try Valuer for free



 Valuer