

## Siemens honors 2024's leading inventors

- **Thirteen “Inventors of the Year” awarded**
- **Artificial intelligence plays a role in over half of the winning solutions**
- **Startup honored for the first time**
- **Siemens reports 5,250 new inventions in 2024, averaging 24 per workday**
- **€6.3 billion invested in research and development in fiscal 2024, up 3 percent year-over-year**

Siemens has named 13 outstanding innovators, four women and nine men, as this year's “Inventors of the Year,” recognizing their groundbreaking contributions in six categories: Newcomers, Open Innovation, Outstanding Invention, Design and User Experience, the PhD Award, and Lifetime Achievement. The prizewinners are from Germany, the U.S., Spain and Mexico. Invention is at the heart of Siemens, strengthening its position as a leading technology company.

“Every day at Siemens, we ask ourselves ‘how can we rethink technology?’ and ‘how can solutions such as digital twins and AI create real world impact for our customers and society?’” said Peter Koerte, member of the Managing Board of Siemens AG, Chief Technology Officer and Chief Strategy Officer. “From intelligent railway systems or more resilient power grids to advanced mammography devices, the inventions of this year's awardees improve many different areas of our daily lives. This is the essence of Siemens innovation, and today we celebrate it.”

Certain criteria must be fulfilled to qualify for nomination. In addition to a track record in the form of granted or submitted patents, crucial factors include the contribution to revenue, measurable business success and significance for strategic partnerships.

## **From AI-controlled robot gripping tools and intelligent power grids to safety bubbles on the factory floor**

The winning inventions show how Siemens technology transforms the everyday, and artificial intelligence (AI) plays a major part. One of the innovations recognized with the “Newcomers” prize uses AI to give robot gripping tools a more secure grip using precise object recognition. Another winner made battery production more sustainable, with a solution leveraging sensor data with timestamps in order to analyze the production history of a given material. An inventor from Siemens Healthineers was another deserving winner in this category. Thanks to her invention, physicians in the future will be able to use a 3D representation of blood vessels and a 4D video to make the flow of contrast agent visible in real time. That will help with the planning and performance of surgery on blood vessels.

One winner in the “Outstanding Invention” category features an AI algorithm that converts building management data into the Siemens standard, reducing time and effort by up to 70 percent. The other prize in this category went to a three-member team who made it possible to run safety-critical rail programs in the cloud safely and with no complications using standard computers.

AI is also driving the energy transition: The “PhD Award” was presented for a process that reliably predicts the capacity utilization of local power grids, enabling precise results to be obtained even using limited data.

The prize for “Design and User Experience” went to two UX designers from Siemens Healthineers who designed a new mammography device that will make workflows more ergonomic for medical staff and examinations more comfortable for patients.

A lifetime of work was the basis for the award to a researcher at Siemens Healthineers, whose achievements include using AI algorithms to automatically record and categorize tissues, organs and anatomies. This helps to automate imaging diagnostics and can assist physicians with reading and interpreting clinical images. The second “Lifetime Achievement” award was presented to an inventor who enhanced factory safety by creating virtual safety zones that define the necessary minimum distances between workers and machinery, protecting employees from colliding with robots.

This year Siemens honored a startup for the first time, with a prize in the “Open Innovation” category. RIICO GmbH, a seller on the Siemens Xcelerator open digital business platform, can turn scanned data from entire factory shopfloors into digital twins. This AI system individually recognizes, extracts, optimizes and transforms each scanned object into its digital representation, accelerating manufacturing simulations by up to 80 percent.

### **Siemens continues to boost its innovative strength in 2024**

The “Inventors of the Year” are among good company. About 53,000 people currently work in research and development at Siemens. Siemens recorded a total of 5,250 inventions in fiscal 2024, amounting to around 24 inventions per workday and an increase of 3 percent over the previous year. In the past fiscal year, Siemens registered 2,900 patents and currently has a total of approximately 45,000 issued patents. The company invested approximately €6.3 billion in research and development, a year-on-year increase of 3 percent.

This press release and press pictures are available <https://sie.ag/79gRRi>

More information on the “Inventors of the Year” is available at [www.siemens.com/inventors](http://www.siemens.com/inventors)

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**Siemens AG** (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company’s purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably. In fiscal 2024, which ended on September 30, 2024, the Siemens Group generated revenue of €75.9 billion and net income of €9.0 billion. As of September 30, 2024, the company employed around 312,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).