

Press release



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Bosch, Budapest Business School and the City of Hatvan inaugurate a smart laboratory in Hatvan

The Industry 4.0 learning center prepares students for the jobs of the future

- A laboratory set up in partnership between Bosch, Budapest Business School and the City of Hatvan helps to acquire the most competitive knowledge
- Artificial intelligence, digital twins and smart factory solutions help develop students' competences
- Bosch is committed to training the professionals of the future

A state-of-the-art lab equipped with Industry 4.0 tools has been inaugurated at the Hatvan Community College. The lab, a collaboration between Robert Bosch Elektronika Kft. of Hatvan, the Budapest Business School (BGE) and the Hatvan Municipality, gives students the opportunity to learn about technologies used in an industrial environment and to develop their digital competences. The knowledge and practical experience they gain will improve their chances of finding a job and prepare them for the jobs of the future.

"The cooperation between Bosch's automotive plant in Hatvan, the Budapest Business School and the municipality is exemplary, benefiting all three parties as well as the students studying in Hatvan. The newly inaugurated Industry 4.0 lab contributes to educating students with the latest technologies and providing them with competitive knowledge," said Arne Ziegenbein, commercial plant manager of Robert Bosch Elektronika Kft. in Hatvan.

Preparing for the jobs of the future in the Hatvan lab

The lab uses Industry 4.0 technologies such as artificial intelligence, digital twins – virtual, digitally monitorable copies of real processes – and smart manufacturing

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technologies to demonstrate production and material flow processes, with a focus on data tracking, collection and evaluation, or data mining. For the most part they have installed tools that are also used in Bosch's factory in Hatvan, including RTLS (real-time locating system) sensors, a simulation kit for PLC (programmable logic controller) programming, RFID (radio-frequency identification) readers and various software solutions. Learning and practicing the use of these will greatly help in learning about artificial intelligence algorithms, debugging and self-learning.

The Community College in Hatvan plays an important role in the training of Bosch employees in Hatvan and in the education of the next generation. Since 2016, hundred employees have taken part in training courses in Hatvan in electrical engineering or management and logistics.

About Robert Bosch Elektronika Kft.

Robert Bosch Elektronika Kft. in Hatvan, 25 years old this year, is the largest manufacturing plant of the Bosch Group's automotive electronics division, where 5,000 employees are engaged in shaping the future of mobility. The company's main profile is the mass production of control electronics, sensors, radars and camera systems for the Group's Mobility Solutions business sector, while the site is also playing an increasingly important role in the manufacture of electromobility-related components. The electronic equipment produced in Hatvan makes a significant contribution to safe, energy-efficient, and connected driving. Through the continuous development of its employees' expertise and its state-of-the-art manufacturing solutions, the Hatvan site plays an active role in realizing Bosch's vision of low-emission, accident-free and stress-free mobility.

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Basic information:

Bosch has been present in Hungary since 1898 with its products. After its re-establishment as a regional trading company in 1991, Bosch has grown into one of Hungary's largest foreign industrial employers with currently eight subsidiaries. In fiscal 2021 it had total net sales of 1,711 billion forints and consolidated sales to third parties on the Hungarian market of 273 billion forints. The Bosch Group in Hungary employs more than 17,000 associates (as of December 31, 2021). Figures of fiscal 2022 for the Bosch Group in Hungary will be available from May 25, 2023. In addition to its manufacturing, commercial and development business, Bosch has a network of sales and service operations that covers the entire country.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 420,000 associates worldwide (as of December 31, 2022). According to preliminary figures, the company generated sales of 88.4 billion euros in 2022. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 85,000 associates in research and development, of which more than 44,000 are software engineers.

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