

## NEWSLETTER

### HI-TECH & INNOVATION

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#### **Chinese researchers create advanced transistor with ultralow power consumption**

Chinese researchers have developed the world's smallest ferroelectric transistor with ultralow power consumption, according to a study in *Science Advances*. The team from Peking University (PKU) achieved a 0.6-volt operating voltage and a 1-nanometer gate size. Current logic chips run at 0.7 volts, while NAND flash requires 5 volts. In artificial intelligence chips, 60–90 percent of power is used for data transfer. (**Xinhua**)

#### **Gen Z engineers train humanoid robots for industrial tasks in China**

At the Liuzhou Robot Industrial Park in Guangxi, Gen Z engineers are training industrial humanoid robots for real-world tasks. Wu Dongbo, 25, said a robot needs at least 300 repetitions to master a simple action. The center plans synchronous training for 120 robots, collecting 10,000 data entries daily. Applications include firefighting, manufacturing, and logistics, advancing artificial intelligence robotics. (**People's Daily**)

#### **Electric vertical takeoff and landing aircraft, humanoid robots make debut in Wuhan, China's Hubei**

A range of electric vertical takeoff and landing (eVTOL) aircraft and humanoid robots debuted in Wuhan, Hubei Province, on February 24, 2026. The event highlighted achievements in the low-altitude economy and artificial intelligence (AI, Artificial Intelligence). Robots demonstrated football, calligraphy, and object-grasping skills, while visitors toured eVTOL cabins and viewed aircraft displays. (**Xinhua**)

#### **Brain-computer interface technology sees broader application, benefiting patients**

Brain-computer interface (BCI, Brain-Computer Interface) technology is moving into real-world medical use in China, enabling patients to control computers, robotic arms, and wheelchairs with their thoughts. A national standard for BCI medical devices took effect on January 1, 2026. At Beijing Tiantan Hospital, over 3,000 patients have registered for evaluation, while trials show mobility gains after electrode implantation. (**People's Daily**)

#### **3D printing fuels a creative boom in Chinese New Year gifting**

In Shenzhen, a factory operating 5,000 3D printers is producing personalized Chinese New Year items, including zodiac decorations, to meet holiday demand. One order of 40,000 ornaments was completed within a week. China's 3D printing sector expanded from 20.8 billion yuan (3 billion USD) to 70 billion yuan (about 9.7 billion USD) during 2021–2025, with equipment output rising 52.5 percent in 2025. (**Xinhua**)