Highlight

Developing a Global R&D Network to Stay Close to Our Customers and Expanding into New Business Areas

Tokyo Electron is expanding its R&D network worldwide in a variety of fields

In order to ensure timely delivery of necessary products to customers, it is important to establish R&D centers at locations adjacent to them and to maintain close cooperation to expedite the commercialization of technology.

In addition to a technology center established in Hsinchu City, Taiwan in 2010, we also opened a process technology center in South Korea and a technology center in Tsukuba City, Ibaraki Prefecture in 2012 to enhance our ability to meet customers’ needs promptly.

The development of the most advanced technology requires the creation of novel concepts through the synthesis of technical knowledge from various fields, making it necessary to leverage external sources of expertise. Tokyo Electron is actively promoting collaboration with universities and research consortiums such as SEMATECH and imec for basic research. The establishment of the Tokyo Electron Technology Center Tsukuba has also opened up the way for joint projects with research institutes clustered in Tsukuba City, allowing us to work together in R&D on new semiconductor materials and photovoltaic power generation as well as on the creation of new technological seeds.

These R&D efforts are expected to bear fruit over the next five to 10 years and yield products that will drive the company’s continued growth.

Ensuring timely delivery of products from a location close to customers

Tokyo Electron Technology Center Tsukuba

- Location: Tsukuba City, Ibaraki Prefecture, Japan
- Floor area: 13,234 m²
- Construction began/completed: August 2011/March 2012
- Activities: Research and development of photovoltaic panel production equipment technology and semiconductor production equipment technology
- Number of employees: Approx. 110 (plan for the first fiscal year)
Tokyo Electron will participate in STT-MRAM (magnetic memory) research and development led by Prof. Tetsuo Endoh of Tohoku University’s Graduate School of Engineering as part of a program to be implemented at the International Academic-Industrial Collaboration Center for Integrated Electronics Research and Development (provisional name), which Tohoku University plans to open in the spring of 2013. The Company will engage in the development of manufacturing equipment technology.

Tokyo Electron has been working with Prof. Endoh on the development of STT-MRAM production equipment technology and integration technology since December 2011. Under the upcoming program, we will further develop this partnership, provide the Center with products, and aim to quickly establish manufacturing equipment technology and integration technology for the production of STT-MRAM, which is attracting attention as a next-generation memory device.

**Joint development project with Tohoku University**

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