



MEDIA RELEASE

A*STAR INSTITUTE OF MICROELECTRONICS ANNOUNCES R&D COLLABORATION WITH ROLLS-ROYCE ON NEXT GENERATION POWER ELECTRONICS

Singapore, 11 June 2012 -

A*STAR Institute of Microelectronics (IME) announces a collaboration with Rolls-Royce, the global power systems company, for the research and development of advanced power electronics devices.

This research collaboration aims to use gallium nitride (GaN) power devices for the development of high-power-density converters that can reliably measure various physical parameters at soaring temperatures of up to 300°C and at environmental pressure of up to 30kpsi. This collaboration will be delivered through IME's Rugged Electronics programme, which was set up to support Singapore's drive to become a technology hub for the aerospace, oil and gas sectors. The focus of IME's Rugged Electronics programme is to develop a wide range of solutions from sensing, packaging, telemetry, non-volatile memory to integrated circuits

"This collaboration leverages IME's established competence and enables us to extend our research to innovate in new industries," commented Professor Dim-Lee Kwong, Executive Director of IME. "More importantly, this strategic partnership offers an excellent opportunity for Singapore to build knowledge in this industry and move further up the value chain."

"We are excited to work with IME in the research and development of advanced power electronics systems and high temperature electronics. IME's expertise, flexibility and positive approach makes them an excellent research partner," said Dr Kurichi Kumar, Director of Research & Technology - Asia, Rolls-Royce Singapore.

About Institute of Microelectronics (IME)

The Institute of Microelectronics (IME) is a research institute of the Science and Engineering Research Council of the Agency for Science, Technology and Research (A*STAR). Positioned to bridge the R&D between academia and industry, IME's mission is to add value to Singapore's semiconductor industry by developing strategic competencies, innovative technologies and intellectual property; enabling enterprises to be technologically competitive; and cultivating a technology talent pool to inject new

knowledge to the industry. Its key research areas are in integrated circuits design, advanced packaging, bioelectronics and medical devices, MEMS, nanoelectronics, and photonics. For more information, visit IME on the Internet: <http://www.ime.a-star.edu.sg>.

About Agency for Science, Technology and Research (A*STAR)

The Agency for Science, Technology and Research (A*STAR) is the lead agency for fostering world-class scientific research and talent for a vibrant knowledge-based and innovation-driven Singapore. A*STAR oversees 14 biomedical sciences, and physical sciences and engineering research institutes, and seven consortia & centre, which are located in Biopolis and Fusionopolis, as well as their immediate vicinity. A*STAR supports Singapore's key economic clusters by providing intellectual, human and industrial capital to its partners in industry. It also supports extramural research in the universities, hospitals, research centres, and with other local and international partners.

About Rolls-Royce

Rolls-Royce is a world-leading provider of power systems and services for use on land, at sea and in the air, and has established a strong position in global markets - civil aerospace, defence aerospace, marine and energy. As a result of this strategy, Rolls-Royce has a broad customer base comprising more than 500 airlines, 4,000 corporate and utility aircraft and helicopter operators, 160 armed forces, more than 4,000 marine customers, including 70 navies, and energy customers in more than 80 countries.

Annual underlying revenues were £11.3 billion in 2011, of which more than half came from the provision of services. The firm and announced order book stood at £62.2 billion at 31 December 2011, providing visibility of future levels of activity.

Rolls-Royce employs 40,400 skilled people in offices, manufacturing and service facilities in over 50 countries. Over 11,000 of these employees are engineers.

In 2011, Rolls-Royce invested £908 million on research and development, two thirds of which had the objective of further improving the environmental performance of its products, in particular reducing emissions. Rolls-Royce supports a global network of 28 University Technology Centres, which connect the company's engineers with the forefront of scientific research.

The Group has a strong commitment to apprentice and graduate recruitment and to further developing employee skills.

More information: <http://www.rolls-royce.com>

For IME

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