

National Semiconductor Translation and Innovation Centre (NSTIC)

What is it?

The National Semiconductor Translation and Innovation Centre (NSTIC) is a national initiative led by the Agency for Science, Technology and Research (A*STAR), in partnership with the Nanyang Technological University (NTU), National University of Singapore (NUS) and Singapore University of Technology and Design (SUTD). It is supported by the National Research Foundation (NRF). NSTIC will be funded about \$180 million from RIE 2025.

NSTIC aims to foster ecosystem collaboration and boost R&D translation outcomes in the areas of flat optics and silicon photonics. NSTIC opens up new possibilities in enhancing the performance, efficiency and functionality of semiconductor devices. This paves the way for faster and more efficient electronic devices like smartphones and computers in the future.

How does it work?

NSTIC will commence in April 2024. Hosted at A*STAR in Fusionopolis, NSTIC will provide researchers and companies access to a common semiconductor manufacturing platform infrastructure including scientists and engineers, cleanroom facilities and industry-ready equipment. This will support companies with their translational research and development, semiconductor prototyping, testing, and small volume manufacturing. NSTIC will also train local R&D talent and provide companies access to intellectual properties (IPs) developed by A*STAR, NTU, NUS and SUTD.

How can companies tap on NSTIC?

Companies can collaborate with NSTIC to enjoy faster product prototyping and manufacturing scale up. This helps them accelerate the process from market testing to final launch of the products. Companies can also tap on NSTIC's capabilities for small volume manufacturing, where recipes and process flows developed in NSTIC can be more easily transferred to foundries for mass production.

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

The Agency for Science, Technology and Research (A*STAR) is Singapore's lead public sector R&D agency. Through open innovation, we collaborate with our partners in both the public and private sectors to benefit the economy and society. As a Science and Technology Organisation, A*STAR bridges the gap between academia and industry. Our research creates economic growth and jobs for Singapore, and enhances lives by improving societal outcomes in healthcare, urban living, and sustainability. A*STAR plays a key role in nurturing scientific talent and leaders for the wider research community and industry. A*STAR's R&D activities span biomedical sciences to physical sciences and engineering, with research entities primarily located in Biopolis and Fusionopolis. For ongoing news, visit www.a-star.edu.sg.

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