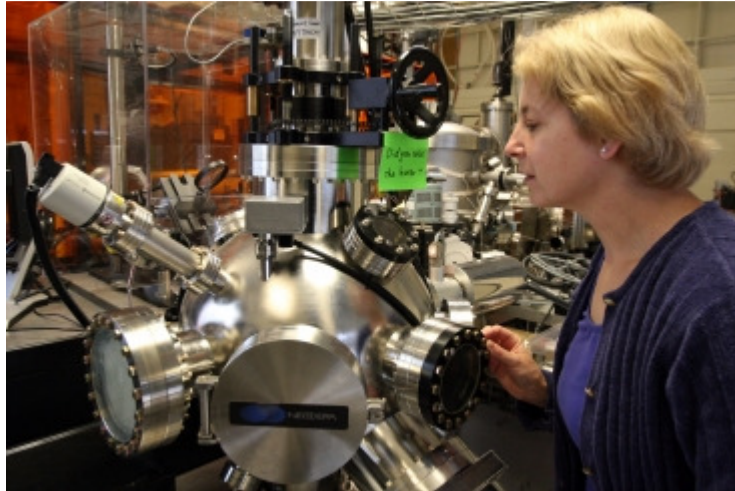


## **New Technology to revolutionize the silicon's communication speeds by embedding photonics in silicon**



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A Research Organization have developed a technology that can revolutionize the silicon's communication speeds by embedding photonics capabilities to silicon, I am providing a short note on this as mentioned below:

Photonics in silicon that could lead to faster, more powerful information processing and supercomputers, made from two tiny silicon rings measuring 10 microns in diameter. It does not require external assistance to transmit signals and can be readily integrated into computer chips.

This is capable of "nonreciprocal transmission" for transmitting signals in only one direction, making it capable of information processing, they are also compatible with industry manufacturing processes for CMOS.

This technology could greatly boost the speed of data-transmission systems, for two reasons: First, light travels much faster than electrons. Second, while wires can only carry a single electronic data stream, optical computing enables multiple beams of light, carrying separate streams of data, to pass through a single optical fiber or circuit without interference. "This may be the next generation in terms of speed" for communications systems.

The research organization can demonstrate a working prototype of photonic circuit ready to be implemented into a silicon.

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