

CORNERSTONE

CAPABILITY FOR OPTOELECTRONICS, METAMATERIALS, NANOTECHNOLOGY, AND SENSING

Silicon Photonics Fabrication Capability

Free-to-access capability for UK academia until Sept 2019

CORNERSTONE is a new fabrication capability that can provide competitive prices for both active and passive silicon photonic devices. The CORNERSTONE team, headed up by Professor Graham Reed at the University of Southampton, aims to offer up to 6 passive calls and 2 active calls per year via a multi-project-wafer service.

With a track record of world-leading results, and supported by some of the world's best academic fabrication facilities for microfabrication and high-spec. nanofabrication, CORNERSTONE offers a flexibility that may not be accessible at conventional foundries.

Through the use of lithography techniques such as advanced projection lithography and direct write e-beam lithography (by request), CORNERSTONE offers both an industry compatible fabrication capability, and a design flexibility essential for research and prototyping purposes.

Standard platforms

CORNERSTONE offers regular access to multi-project-wafer batches for both active and passive silicon photonics devices. The three standard silicon-on-insulator platforms are:

- \rightarrow 220 nm Si/2µm BOX
- \rightarrow 340 nm Si/2µm BOX
- \rightarrow 500 nm Si/3µm BOX

Bespoke specifications

In addition to the multi-project-wafer service, CORNERSTONE can also offer bespoke fabrication runs to suit the individual needs of customers.

Please contact us to discuss your specific requirements: cornerstone@soton.ac.uk









Provisional dates for future CORNERSTONE MPW fabrication calls:

Call	Call type	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019
MPW #7 - 340 nm SOI platform	Passives															
MPW #8 - 220 nm SOI platform	Passives															
MPW #9 - 220 nm SOI platform	Actives		Ca	ll ani	nour	iced	-				✦	Sub	miss	ion	lead	line
MPW #10 - 500 nm SOI platform	Passives															
MPW #11 - 220 nm SOI platform	Passives															
MPW #12 - 340 nm SOI platform	Passives															
MPW #13 - 340 nm SOI platform	Actives															
MPW #14 - 220 nm SOI platform	Passives															

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Device type	Design area:	Design area:					
	11.47 mm x 4.9 mm	5.5 mm x 4.9 mm					
Active	£35,000	£20,000					
Passive with heaters	£10,000	£7,000					
Passive	£5,000	£3,500					

Free of charge for UK academia.

Please note that this information is subject to change.



Contact us

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