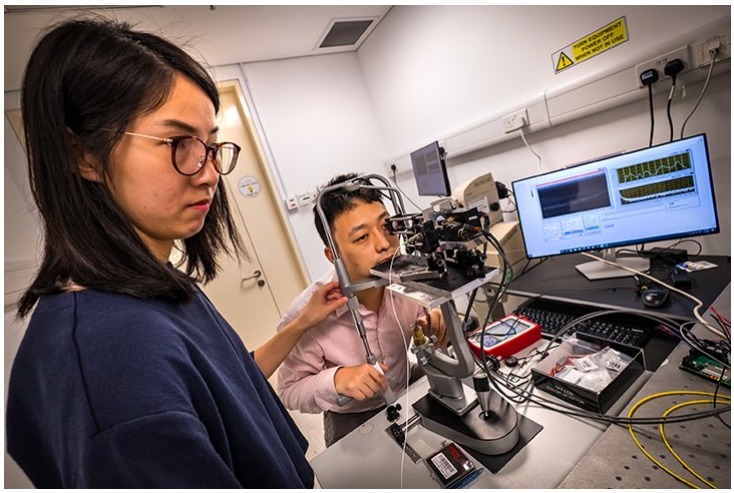
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NTU, SERI to develop advanced ocular imaging technologies

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Have launched a joint laboratory



Nanyang Technological University, Singapore (NTU Singapore), the Singapore National Eye Centre (SNEC), and the Singapore Eye Research Institute (SERI) have launched a joint laboratory that will develop advanced eye imaging technologies and drug delivery systems.

The new SERI-NTU Advanced Ocular Engineering (STANCE) Laboratory will develop innovations that use light to image the eye – a technique known as “optical coherence tomography” (OCT).

For example, the joint Lab will perfect a triple-beam OCT imaging prototype that illuminates the eye from three different angles and accurately measure blood flow. This can precisely detect diseases in the eye, such as age-related macular degeneration or glaucoma with greater precision.

Another project involves developing a cost-effective and portable robotic OCT system to perform rapid and automated eye screenings. Powered by artificial intelligence (AI), the system will provide a convenient platform to detect eye conditions earlier, without requiring attendance at a specialised eye clinic or hospital. These projects will be translated, tested and validated, from lab to bedside.

The joint Lab was launched by Professor Ivy Ng, Group CEO of Singapore Health Services, and it will be located on the NTU Smart Campus where other advanced technologies are being developed in partnership with industry.