AI Specialists Manchester Imaging Win UK Innovation Scholars Grant to Develop AI-enhanced Skin Cancer Detection Capability for Michelson Diagnostics' VivoSight OCT Scanner

Maidstone, UK

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AI specialists Manchester Imaging Ltd have won a UK Innovation Scholars grant to support the part-time secondment of AI expert Tom Williams to skin scanner specialists Michelson Diagnostics Ltd over two years.

Tom is working with Michelson to develop AI software that will process images of basal cell carcinoma, the most common form of skin cancer affecting millions worldwide, scanned by dermatologists using the innovative VivoSight™ OCT scanner already manufactured by Michelson Diagnostics.

The AI will rapidly detect markers for basal cell carcinoma skin cancer that may be present in an OCT scan and show them to the dermatologist enabling them to make a faster, easier and potentially more accurate diagnostic decision than would be possible from them instead manually reading the images, which normally takes time and experience to master.

The first results from the project are expected before the end of 2021, and Michelson is already seeking clinical partners to help evaluate the prototype AI software and advise on its application in clinical practice.

Michelson's VivoSight™ Dx OCT scanner is the world's leading Optical Coherence Tomography (OCT) skin imaging system which can see over 1 mm deep into the skin to produce images of skin structural elements, vascularity and pathology. It has CE mark, FDA 510(k) and TGA clearance for use in Europe, USA and Australia. In Germany an estimated 120,000 patients have been scanned to date using VivoSight™.

Manchester Imaging Limited, an AI software spinout from The University of Manchester has, through its first CE-marked product AssistDent®, developed and commercialized successful AI algorithms for analysing dental radiographs. AssistDent enhances the diagnostic capability of dental radiographs enabling improved detection of early tooth decay by dentists, leading to more preventive dentistry.

"I am very pleased that Tom Williams can help us to further improve our VivoSight products for the fight against skin cancer" said Jon Holmes, CEO & President of Michelson Diagnostics. *"We want to learn from Tom how to bring the power of AI into the dermatology clinic to benefit patients".*

Jon Holmes, CEO, Michelson Diagnostics Ltd

"I am very excited to work with Michelson Diagnostics" said Tom Williams, Software Manager at Manchester Imaging Ltd*, "This project will give me a new vista of opportunities to apply my skills and experience to another field of medical imaging where I can make a real difference to patient care".*

Tom Williams, Software Manager,
Manchester Imaging Ltd

About Michelson Diagnostics' VivoSight OCT scanner
Michelson Diagnostics' innovative VivoSight Dx OCT scanner has CE mark, FDA 510(k) and TGA clearance for use in the EU, USA and Australia by trained clinicians for scanning skin lesions as an aid to assessing the patient's condition. Using novel patented laser optics in an easy to use hand-held probe, it provides real-time, high-resolution subsurface images of skin tissue that reveal valuable information useful to the practising dermatologist and skin research scientist.

About Michelson Diagnostics (www.vivosight.com)
Michelson Diagnostics is headquartered in Maidstone, UK, and has sales and support subsidiaries in Germany and in California, USA. Founded in 2006 by Jon Holmes and colleagues, Michelson Diagnostics designs, manufactures and supports highly innovative imaging instruments using multi-beam optical coherence tomography technology. Michelson Diagnostics is the world's leading supplier of Optical Coherence Technology (OCT) devices for dermatology, and operates globally with agents in other countries including China and Australia.

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About Manchester Imaging Limited: (www.manchester-imaging.com)
Manchester Imaging Limited have developed AI software for dentists that is focused on preventive and early diagnosis dentistry. Manchester Imaging's first product AssistDent is proven to significantly enhance detection rates of difficulty to find enamel proximal carious lesions (the first signs of dental decay between teeth), leading to more opportunities for preventive dentistry. Manchester Imaging, a spin-out from The University of Manchester, UK, has a proven track-record in the design, development and deployment of AI systems for image analysis. Incorporating algorithms drawn from the fields of computer vision, machine learning and neural networks. The Manchester Imaging team have an expertise in producing integrated AI and user-interface solutions that aid clinicians. Manchester Imaging products are CE marked as medical devices and the company conforms to ISO 13485 quality management standard.

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