Tender ref: UoS/DH/24/25/QTR4/Medical sector 3D scanning and 3D printing solution for custom made orthotic devices. 2 elements that need to be packaged together as one solution:

1.Specialised Orthotic 3D printer and software

2. Scanner device with software for recognising different body segments

1. The University of Salford are currently looking to purchase a 3D printer to produce custom made insoles for specific service user requirements. We are looking for a device which can offer at least 10 different densities within the printed layers to offload pressure areas on the foot. Insoles need to be produced with minimum modification following printing ready for us to use. 3D printing capability with a minimum printing height of 5 millimetres and a maximum height of 5 centimetres. Capable of producing 230 pairs per month with minimum waste (we are not looking for a carving solution). The software needs to be specific to the industry offering all the adaptations required – metatarsal bars, sinks, valgus arch profiles at different heights, heel dish, skives etc. For educational purposes the successful provider needs to provide software and hardware support for future use of a minimum of 10 years.

2. Body Scan high precision non – contact camera portable white light 3D scanner (hard case included) to capture patients shape accurately. Computer-based 3D design software tools to allow the application of anatomical corrections to the scanned shape to create the desired form that can be compatible for use with the 3D printer and software for orthotic devices.

Packages should include all hardware and software necessary to conduct teaching & research. There is a requirement for hardware/software to integrate with future orthotic requirements.

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