Research Fellow Position in Wearable Sensor Technology

Job Description

A post-doctoral position is available for three years with competitive remuneration and benefits. We are looking to recruit a highly motivated candidate who has a strong background in the design, analysis, mechanical testing, and failure analysis of next generation wearable medical sensors. The candidate will also conceptualize, design, analyze and fabricate prototypes for evaluation and develop new test methods and requirements for the said prototypes. The focus of the grant-funded project is to design a medical device for diabetic foot ulcer detection, management, and rehabilitation using innovative manufacturing techniques such as 3D printing.

For this project, the successful candidate will develop and apply various manufacturing techniques in the development of a soft, conformable, wearable device. We aim to develop tools:

1. To improve the diagnosis/prognosis of diabetic foot ulcers
2. To aid in the management of diabetic foot ulcers

The candidate will work closely with an NUS spin-off, Flexosense, and will be expected to interact with engineers, computer scientists, and clinician scientists.

Job Requirement

Applicant should have:

- A PhD in materials science, chemical engineering, mechanical engineering, electrical engineering or biomedical engineering
- Experience working on thin film processing methods and additive manufacturing techniques for the pre- and post-processing of flexible plastic 3-D printing will be an advantage
- Knowledge of hybrid flexible electronics and associated equipment would be an advantage
- Experience with injection molding equipment would also be an advantage

Application

Please send your application including a cover letter, detailed resume and names of three references to:

Professor Lim Chwee Teck (Email: ctlim@nus.edu.sg)

Only shortlisted candidates will be notified.