Investigating the Local Mode of Action of Anti-Perspirants using model systems and advanced probing techniques.

3.5 year PhD Position available Oct 2024,

A collaboration between University of Liverpool & Unilever R&D

Personal care products represent a £multi-billion global industry.

This project will aim to create a step-change in this field by utilising advanced fabrication to mimic biological systems and then deploying sophisticated techniques to understand the action of anti-perspirants (Fig 1) with high chemical and spatial resolution.

The project will include:

- Advanced surface measurement methods including Atomic Force Microscopy (AFM), Electron Microscopies and localised vibrational techniques of IR and Raman microscopy
- Interdisciplinary science and global innovation
- The student will enrol in NBIC’s Doctoral Training Centre which trains interdisciplinary PhD researchers at the Interface of Physical and Life Sciences.

Applications are encouraged from highly motivated candidates who have, or expect to have, at least a 2:1 degree or equivalent. Applications should be made as soon as possible but no later than 15/06/2024. Candidates will be evaluated as applications are received, and the position may be filled before the deadline if a suitable candidate is identified. Informal enquiries are also encouraged and should be addressed to Lucy Jones (Lucy.Jones2@liverpool.ac.uk)

Supervisory team:

Professor R Raval, Department of Chemistry, University of Liverpool.

Dr P Pudney (Industrial supervisor), Unilever R&D Port Sunlight, Liverpool.