

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

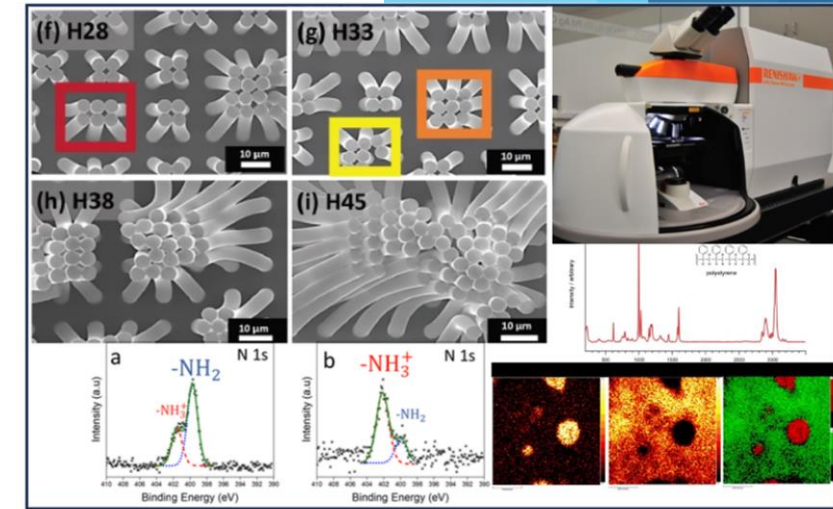
Personal care products represent a £multi-billion global industry.

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)



Combining advanced fabrication and probing techniques to track science and technology at the local level.

Supervisory team:

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

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