



Electrochemically assisted integration of organic semiconductors on CMOS and MEMS **Deepak Uttamchandani, University of Strathclyde**

This 12 month feasibility study will investigate the electrochemically assisted integration of organic semiconductor films with MEMS in order to develop low-cost, environmentally friendly manufacturing processes for advanced CMOS/MEMS sensors and actuators. The sensors developed during the study will target nitro functionalised compounds, which are related to the explosives RDX, PETN, TNT and DNT.

The interdisciplinary research will involve collaboration between academic teams based in the Departments of Electronic & Electrical Engineering (Uttamchandani) and Pure & Applied Chemistry (Skabara) at the University of Strathclyde, while industrial input and support will be provided by a major UK CMOS and MEMS sensor manufacturer and exporter, namely Semefab Ltd