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# Creating Products and Impact through Nanoscale Materials and Technologies

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## Extended Abstract

Unlocking the properties of materials at the nanoscale has led to new applications in electronics and sensors. Transforming these discoveries into devices and technologies with commercial impact is a major challenge. This presentation showcases examples of industry-partnered and industry-driven research translation. Soft electronics technology applied to smart bedding products for aged-care support and wearable smart patches for wireless biometric measurements are presented. Using nanoscale coatings, rapid and specific biomarker sensor development is presented, with applications in cardiac health and cancer screening. These projects are presented with fundamental science, manufacturing approaches, user studies, and product design.