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From the Higgs boson to Detector Development for Nuclear Security

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Using a multidisciplinary background ranging from chemistry, materials science and condensed matter through to instrument development for particle physics, our group has developed novel capabilities in radiation detection and sensing that may be relevant for civil nuclear and nuclear security applications. We summarise these developments and reflect on the journey taken from a fundamental science capability to one with a more applied outlook. We will review work funded by AWE, NuSec, NTR-Net and other sources that cover the outcomes of pilot projects and the work of PhD students, alongside UKRI and university funded innovations.

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