



NuSec 2016 Pilot Projects



AWE Detection Call

NuSec Pilot Projects

Aim To enable small projects such as proof of concept or feasibility studies to bring very early ideas to a point ready for further grant applications.

Funds Up to 5 projects of around £4,000 each.

Scope Projects must show the potential to enhance nuclear security for the *End User Panel* of NuSec.

Calendar New projects to be advertised in the spring 2017

NuSec Pilot Project Applications

Thallium Bromide sensors
Evidential Reasoning for Radiological Detection
Colloid interaction with Muons
Digital SiPMs for Spectroscopic Measurement
Passive radiation imaging
Pulse-shape analysis
Portable strontium-90 detector
Highly Radiation Tolerant Electronics
Within-atmosphere radioactivity measurements
Network of small detectors
Portable Atom Traps for Ultra-Sensitive Detection of Cs Radioisotopes: Laser Sources
Single Photon Dosimetry
Precise β -decay data for ^{96}Y

AWE Detection Call

Aim To seek fresh ideas, developments and collaborators to support the Detection Programme at AWE

Subjects
A. Maths/Stats/Algorithm/Software
B. Instrumentation/Hardware
C. Novel Signatures

Output 18 proposals (~£2M) of which 7 are to be funded.

Subjects Detector materials, signal processing
deployment techniques, simulation development