

Grants and Contracts

UT-Battelle Oak Ridge National Laboratory, “JFA: Motion correction for ship-to-ship passive inspections; Gamma-ray imaging and 3D design information verification for nuclear facility safeguards,” Jan. 2008 – Dec. 2009. Sole PI.

UT-Battelle Oak Ridge National Laboratory, “Graduate and undergraduate student projects in Nuclear Materials Detection and Characterization,” Jan. 2008 – Dec. 2009. Sole PI. (8 students, 8 projects).

ICx Radiation, “Charge collection efficiency mapping in a quasi-hemispherical CdZnTe detector,” May. 2008-Jul. 2008.

US Nuclear Regulatory Commission, “Faculty Development Grant at the University of Tennessee,” Nov. 2008 – Oct. 2011. Lead PI (Co-PI is Dr. Lee Dodds).

UT-Battelle Oak Ridge National Laboratory, “Graduate certificate program in Nuclear Security Science and Analysis,” Nov. 2008 – Jul. 2010. Lead PI (Co-PI is Ivan Maldonado).

UT-Battelle Oak Ridge National Laboratory, “Nuclear Security Science and Analysis Graduate Certificate Program at the University of Tennessee-Knoxville,” Jul. 2009 – Jun. 2010. Sole PI.

Defense Threat Reduction Agency, “Glasses for detection of penetrating radiation via the Cherenkov effect,” Aug. 2009 – Aug. 2014. Sole PI.

National Science Foundation & Domestic Nuclear Detection Office (Department of Homeland Security), “Research Program in Exploiting Time-Correlated Signatures and Directionality of Interrogation to Detect Shielded Highly-Enriched Uranium,” Sep. 2009 – Aug. 2014. Sole PI.

UT-Battelle Oak Ridge National Laboratory, “Alternative Detectors to Replace He-3 Detectors for Neutron Sciences,” Aug. 2009 – Dec. 2011. Sole PI.

Office of Naval Research through the Defense University Research Instrumentation Program (DURIP), “An underwater vehicle for radiation measurements in marine or riverine environments,” Sep. 2009 - Aug. 2010. Sole PI.