

Radiation Measurement, Simulation and Visualization Laboratory (RMSVL) at Blacksburg

(Under construction, by Profs. Mark Pierson and Ali Haghghat, funded by DOE-NEUP Program)

- Supports courses in radiation detection and measurement, nuclear nonproliferation and safeguards, radiation protection and shielding, and particle transport
- Supports research activities in radiation detection and materials, radiation dosimetry, light-weight radiation shielding materials, radiation arrays, medical physics, nuclear safeguards, design of passive and active interrogation systems, benchmarking of particle transport codes, and radiation transport visualization
- Includes an outreach program to the local regional middle schools, high schools, and community colleges
- Some of the equipment being purchased for the lab:
 - Reverse electrode Germanium detector, 60% efficiency, and hybrid cryostat
 - Digital spectrum analyzer
 - NaI and LaBr detectors
 - Lead shielded counter-scaler system
 - 32-processor computational cluster and large panel displays for visualization

