Lawrence Berkeley National Laboratory

Addressing DNN R&D Goals, Objectives, and Requirements at a National Lab with an Academic Culture and Driven to Solve Big Science Challenges of National & Global Scope

LBNL Overview

- First DOE National Lab (est. 1931)
- ~3,400 employees
- >220 joint faculty
- 1,524 visiting scientists/engineers per year
- 13 Nobel laureates
- Deep technological roots in advanced accelerator concepts and radiation detection

Key DNN R&D Projects

- Monoenergetic photon sources for nuclear nonproliferation applications
- Advanced radiation detection materials
- Laser filaments and channeling to enable remote sensing
- Advanced laser spectrochemistry concepts to overcome shortfalls of mass spectrometry
- Using radiological and contextual information to test and develop advanced algorithms
- Developing architecture for a DNN research data management system and algorithm testbed

Collaborating with academia and other labs for DNN R&D

- Lawrence Livermore National Laboratory
- Los Alamos National Laboratory
- Pacific Northwest National Laboratory
- Oak Ridge National Laboratory
- Argonne National Laboratory
- Sandia National Laboratories
- Brookhaven National Laboratory
- National Institute of Standards and Technology (NIST)
- Idaho National Laboratory
- University of California (UC)
- Massachusetts Institute of Technology (MIT)
- California Institute of Technology (Caltech)
- University of Central Florida (UCF)
- National Nuclear Security Administration (NNSA)

Research & Employment Opportunities

- Visit jobs.lbl.gov
- or education.lbl.gov (for internships and summer fellowships)

For DNN R&D related teaming and job opportunities (including internships), contact John Valentine

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