

Vision: National Security in a Global Context

Stockpile Stewardship



Global Security



Energy & Environment



Basic Science



Pursuing global security through the application of multidisciplinary S&T to enhance national security, meet energy and environment needs and enhance economic competitiveness

Central to all that California offers



- One hour to San Francisco (45 minutes by BART)
- 45 minutes to Oakland and Berkeley
- 45 minutes to San Jose and Silicon Valley
- 90 minutes to Napa and Sonoma
- One to two hours to Santa Cruz or Monterey
- Two hours to the Sierra Nevada
- On-site fitness
- Small town living in Bay Area



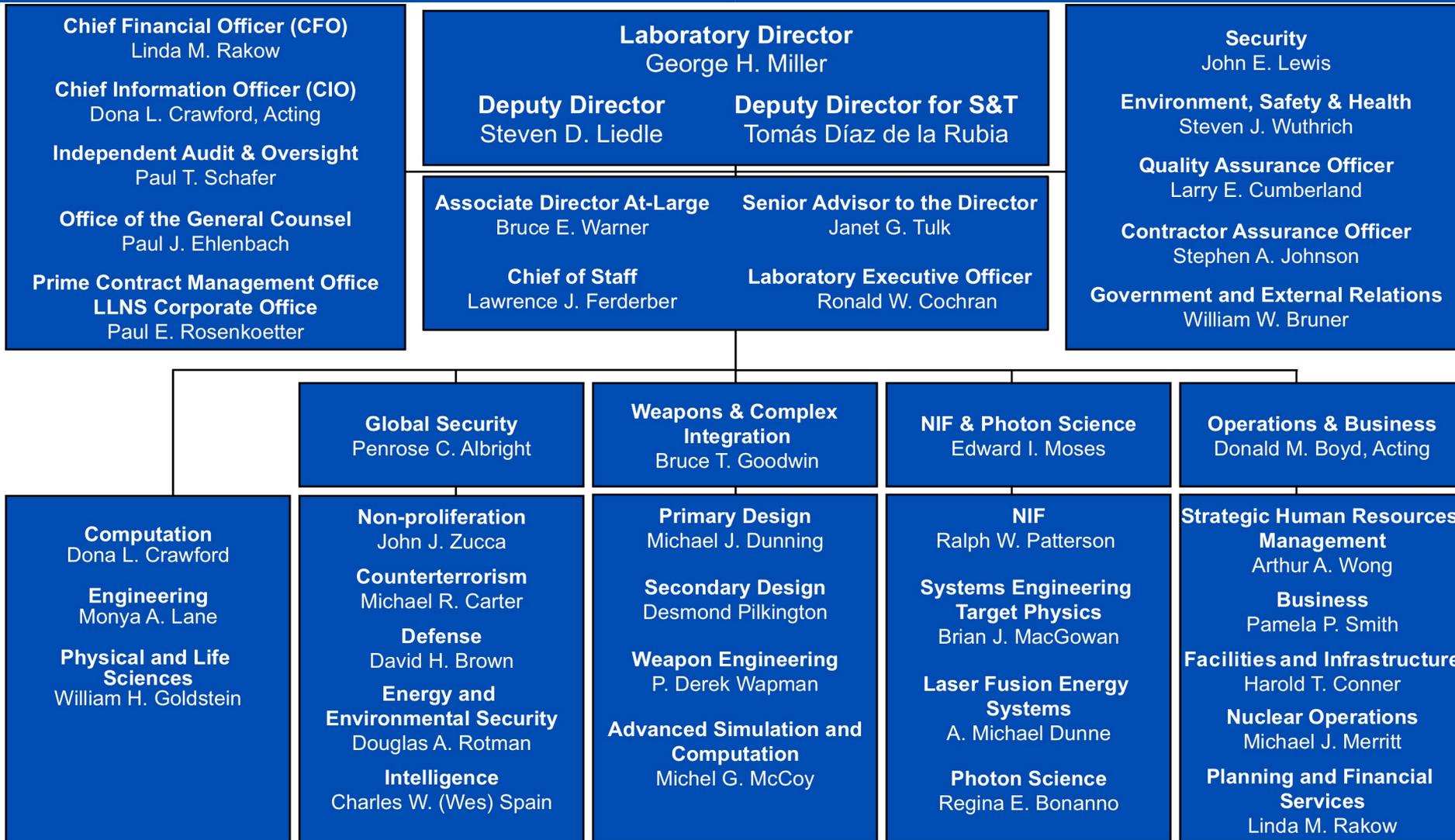
Physical attributes of LLNL site

- Total gross square feet: approximately 7.4 million (677 facilities)
- Annual Budget: ~ \$1.5 billion
- Approximately 7,000 career employees

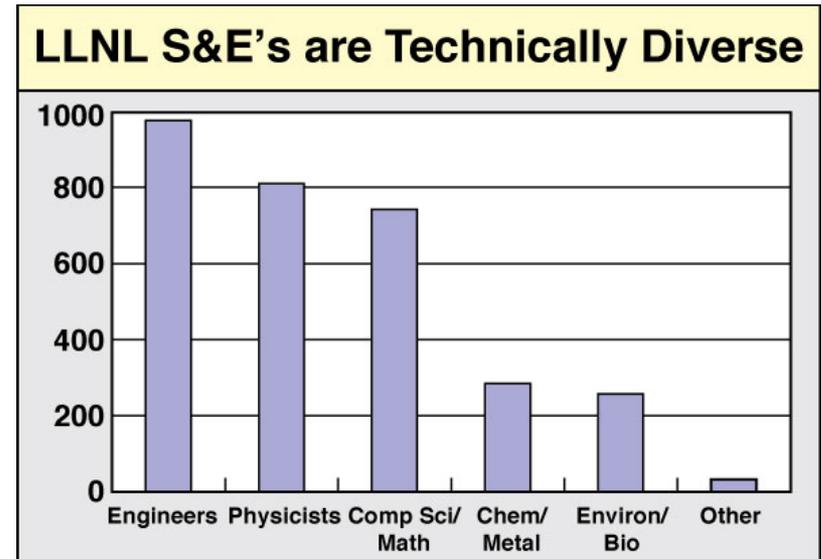
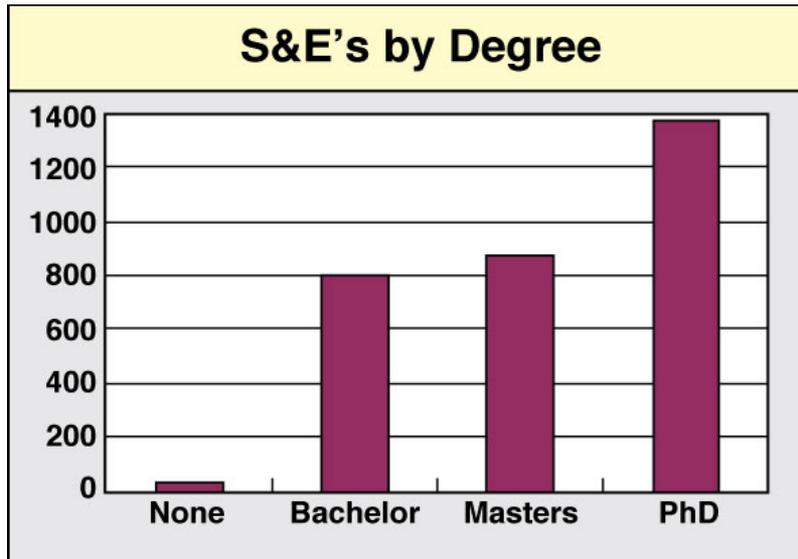
Livermore Main Site –1.2 square miles



Lawrence Livermore National Laboratory



LLNL S&E workforce



Facility Information:

The vision of the LLNL Domestic Security Program is to develop and apply game-changing capabilities to protect and respond to attacks on the U.S. Our focus is on preventing and mitigating potentially catastrophic incidents involving chemical, biological, radiological, nuclear or high-explosive materials.

LLNL's role in Domestic Security began nearly 30 years ago with the formation of the Nuclear Emergency Search Teams (NEST) and the related Nuclear Assessment activities. Today, our Domestic Security programs comprise approximately \$100M of revenue annually across a wide range of programs and sponsors. These programs range from threat and risk assessments, to detection of threat materials, to understanding and mitigating the consequences of attacks, to forensic analysis to aid in the attribution of responsibility. Our work encompasses chemical, biological, radiological, nuclear and high explosive threats. Our customers include the Department of Homeland Security, the Department of Agriculture, the Department of Justice, the Department of Commerce, State and Local Governments and non-Governmental organizations. In addition, Domestic Security programs are also supported by the DOE/NNSA and DoD (e.g., DTRA and the National Guard).

Today's programs take advantage of significant historical investments by the DOE/NNSA in key infrastructure and most importantly in our technical staff. We have organized our existing efforts into five program areas:

- * Threat Awareness
- * Biological Detection and Response
- * Radiological and Nuclear Detection and Response
- * Risk and Consequence Management
- * Forensics and Attribution

Estimated number of DHS Scholars and Fellows LLNL can host:

No constraint. LLNL hosted 14 DHS interns during the summer of 2011. We are ready to host as many as express interest in LLNL and where a DHS approved project can be identified and matched to a student's interest.

Start and end dates:

LLNL can start accepting students by mid May through the 3rd week of June with departure through September. Arrivals outside of this block of time will require administrative approval and a LLNL PI supporting the placement and schedule. We will try to schedule a late May and early June start dates for most interns. Typical start dates for Summer 2012 will be on Mondays.

Ending Assignments early:

LLNL is a defense and national security laboratory. Any infraction to prohibited items can result in pulling ones badge and depending on the infraction, an investigation, leading to ending the appointment early. LLNL will provide a list of prohibited items but as an example, this includes bringing onsite cameras,

recording devices, personal computers (especially with wireless capability) and controlled substances including illegal drugs and associated paraphernalia (except prescription drugs in their original containers). If a drug test is requested, LLNL is not responsible for the cost of the test. Cameras in cell phones are now allowed on site but can't be used as cameras.

A brief plan how students will be integrated (both work and social):

Once an offer is extended, the student(s) and researchers will be encouraged to contact each other and for the researchers to provide reading material, web site links, ongoing communications to bring the student up to speed on the project – as much as possible and can be done based on the students school schedule.

As stated, all starts will be on a Monday with the initial time addressing orientations and safety/security training. Additional safety courses are project specific. Training will be required upon arrival and some may be taken prior to arrival. Safety is taken very seriously at LLNL, especially when here for a short period of time like 10 weeks. It is common that one may take 2 to 4 weeks before having completed all the safety requirements, cyber security, gaining access to networks, and being trained before being comfortable working with expensive equipment, starting to become productive and working without or with less supervision.

LLNL hosts approximately 500 upper level undergraduates and graduates every summer. In addition to lectures held within a Directorate, Department and Program, there is a whole series of summer students lectures, panels, socials, networking, etc. – and oh yes, the research project. So there are plenty of things to do and opportunities to network – both between other students and the Lab researchers. Of course, within the DHS Scholars/Fellows program there is also a required weekly briefing. Failure to participate in the DHS briefings can result in ending the assignment early.

LLNL is located in a mile square facility with 2 cafeterias. Pending one's research area, the dress in the summer is usually similar to what a student wears on campus. While work hours are from 8:00 AM – 4:45 PM, the specifics of when a student arrives and departs is agreed upon with the supervisor. Students are not allowed to work alone and initially, without supervision.

LLNL is located approximately 50 miles East of San Francisco. A BART (Bay Area Rapid Transit) station is located in Pleasanton (10 miles west of Livermore) for access to the Bay Area. Monterey, Napa Valley and Yosemite are a few hours drive and popular tourist spots.

Lodging: Lodging will be facilitated by LLNL but is still the responsibility of the DHS participants. LLNL will make available a CONUS (like per diem) of \$41/day during the work week, to exclude holidays and weekends. Participants can elect how to spend the \$41/day but if used for lodging, it should offset these costs. This is a taxable income.

DHS recipients can accept the facilitated lodging or arrange their own. If you are approved to participate outside of the typical starting dates of mid May to the 3rd week of June, you will be responsible to arrange your own lodging.

You will be required to provide a credit card to the apartment leasing agent or manager not only for rent, but also for any damage, missing items or failure to clean sufficiently upon your departure. Charges to your credit card will be at the discretion of the leasing agent or manager.

Relocation: LLNL is unable to supplement or reimburse any travel costs.

Research Paper/Poster: LLNL traditionally requires an oral presentation at the conclusion of a summer assignment and participation in the Lab-Wide Summer Student Poster Symposium. The poster symposium is usually the second Thursday in August. It is advantageous to arrange your dates to be here during this time.