



DEPARTMENT OF ENERGY NATIONAL NUCLEAR SECURITY ADMINISTRATION

# LABORATORY RESIDENCY GRADUATE FELLOWSHIP

The Department of Energy National Nuclear Security Administration Laboratory Residency Graduate Fellowship (DOE NNSA LRGF) provides outstanding benefits and opportunities to U.S. citizens who are entering their second (or later) year of doctoral study to work at premier national laboratories while pursuing degrees in fields relevant to the stewardship of the nation's nuclear stockpile.

**LAB RESIDENCY** Fellowships include at least two 12-week research residencies at Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Sandia National Laboratories, or the Nevada National Security Site. Fellows are encouraged to extend these residencies to carry out thesis research and other studies at the four DOE NNSA facilities.



## FIELDS OF STUDY

**ENGINEERING & APPLIED SCIENCES** pulsed power; particle accelerator physics and design; detector and data processing; fluid mechanics

**PHYSICS** atomic, nuclear and plasma physics; shock physics

**MATERIALS** additive materials; dynamic materials; energetic materials physics and chemistry

**MATHEMATICS AND COMPUTATIONAL SCIENCE** multiscale, multiphysics theory and numerical simulation; PIC/fluid hybrid simulation

## BENEFITS

- \$38,000 yearly stipend
- Payment of full tuition and required fees
- Yearly program review participation
- Annual professional development allowance
- Two or more 12-week-minimum national laboratory residencies
- Renewable up to four years

*PHOTO: Los Alamos National Laboratory's Joe Sandoval (left) and Gabriel Olivas (right) seal up one of DARHT's giant induction cells, 74 of which are used to accelerate electrons to within a hair's-breadth of the speed of light. The electrons produce X-rays that capture images of the inside of an imploding nuclear-weapon mockup.*