



2015 Science Writers Symposium

About the Office of Science and Engineering Laboratories (OSEL)

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U.S. Food and Drug Administration

Center for Devices and Radiological Health



3D Printed Mock Cranioplasty (Skull Plate)

The Office of Science and Engineering Laboratories serves as the laboratory science nucleus for CDRH. Specifically, OSEL supports the scientific basis for the Agency's regulatory decision-making by developing independent laboratory information for regulatory and other public health activities of CDRH.

The regulatory science research within OSEL supports the CDRH vision: Patients in the United States have first access in the world to high-quality safe and effective medical devices and radiation emitting products.

In the case of CDRH, these products can include orthopedic, cardiovascular, surgical, ophthalmic, neurological, urological, and dental medical devices. They can also include diagnostics and radiological medical devices.

- Work in OSEL is supported by specialized laboratories within divisions of Applied Mechanics; Biology, Chemistry and Material Science; Biomedical Physics; and Imaging, Diagnostics and Software Reliability. OSEL collaborates with federal agencies, academics, and industry by establishing collaborative agreements.
- Laboratories on the FDA's White Oak campus have an approximate area of 200,000 gross square feet (GSF). OSEL houses agency core facilities for nano-core, and additive manufacturing.
- The High Performance Computing (HPC) facility, based in OSEL/CDRH provides a supercomputer scale capacity for FDA scientific and emerging regulatory needs. Projects across FDA include large-scale simulations, various genomic and data science, including exoscale Bayesian analysis (gigantic statistical simulations).

Questions? Contact FDA's Office of Media Affairs at 301-796-4540 or fdaoma@fda.hhs.gov