

SANDIA's NATIONAL SECURITY PHOTONIC CENTER

Silicon Fab:
Silicon Photonics



PDK and
8" Multi-Project Wafers



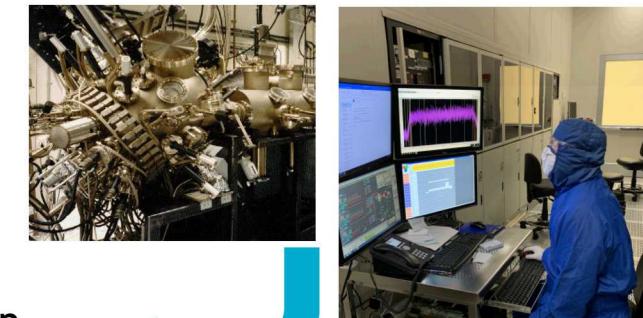
Photonic circuits



Microfab:
Compound Semiconductor
Photonics



Custom Epitaxial Growth & III-V Devices
(GaAs, InP, GaSb, GaN)
PDK and Multi-Project Wafers (InP)

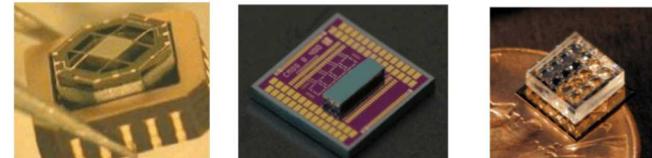


Photonic circuits & Lasers

60+ Photonics Staff

Device Design, Modeling, Simulation
Semiconductor Device Fabrication
Microsystem Fabrication
Testing, Rad Effects, Cryo
Reliability

Microsystems and Heterogeneous Integration
(Flip Chip Bonding, micro-optics, assembly, packaging)



[www.sandia.gov/
mstc/nspc](http://www.sandia.gov/mstc/nspc)

A member of



backup

SANDIA's MESA COMPLEX

MESA= Microsystems Engineering, Science and Applications

Co-jointed Fab Facility

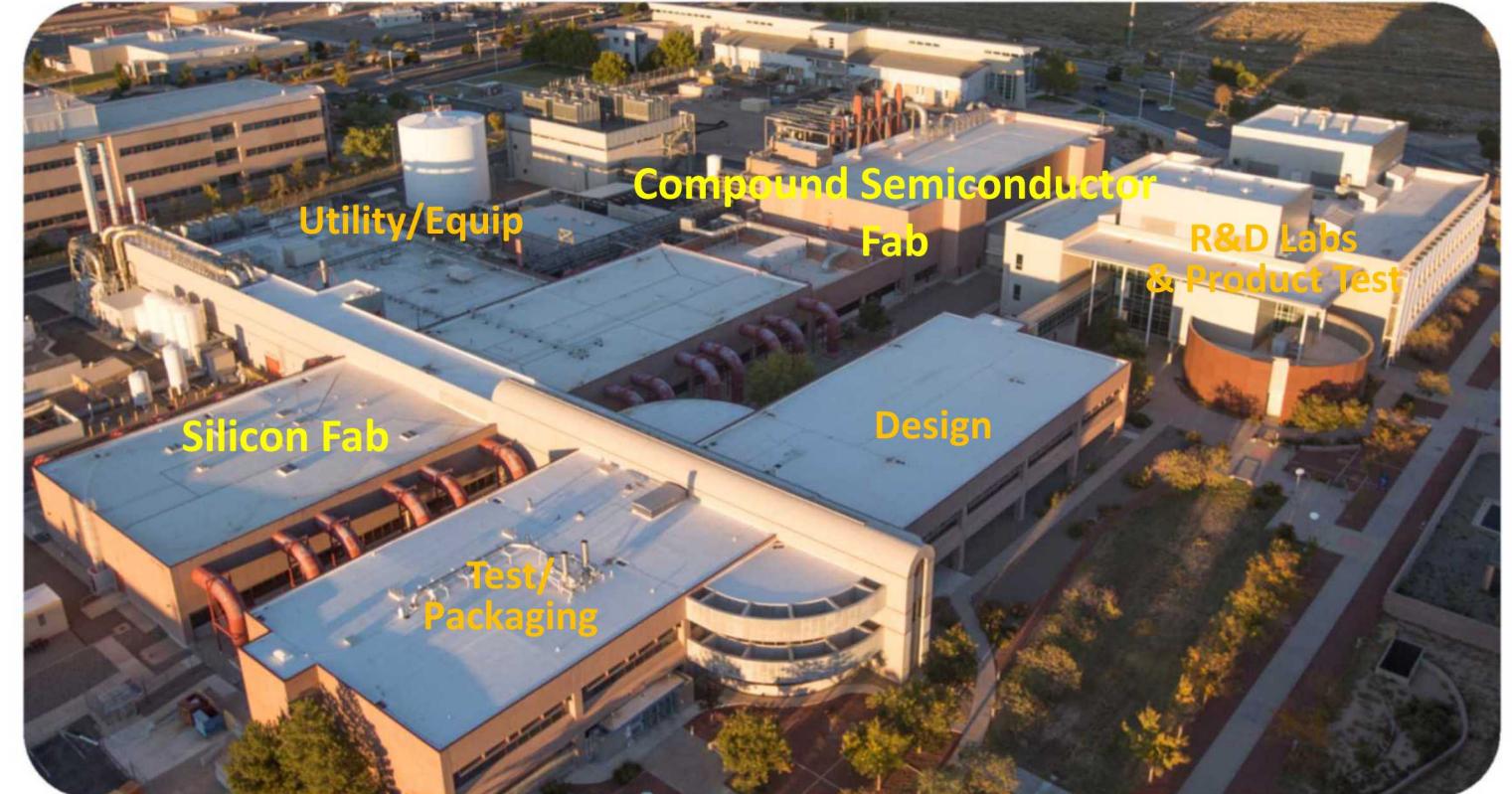
- Silicon Fab
- Compound Semiconductor Fab

Charter:

- design, develop, fabricate, qualify, and produce at low-volume for DOE applications
- conduct leading edge research

Currently dozens of products:

- ASICs, III-V SSICs, MEMS, FPAs, RFICs, Optoelectronics



Co-located R&D and Production