



Savannah River National Laboratory

We put science to work.™

SRNL Overview



Sharon Marra
Deputy Director, Chief Operating Officer

April 2022



Managed and operated by Battelle Savannah River Alliance, LLC for the U. S. Department of Energy.



Savannah River National Laboratory



- Evolving emphasis on environmental remediation, tritium processing and nonproliferation.
- Strong efforts to share expertise beyond SRS.



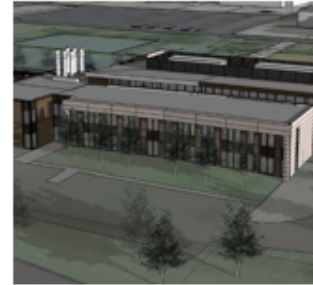
- Recognized expert in environmental technologies.
- Emphasis on advanced manufacturing for DOE and NNSA missions.



- Established in 1951.
- R&D for the production of nuclear materials needed for weapons – primarily tritium and plutonium-239.



- National Laboratory.
- Growth of National Security and Materials Science programs.
- Focus on deployable solutions.



Fundamental and Discovery Science



Extracted from Site Management and Operating Contractor under new Contractor – June 2021



SRNL Management & Operations: University Partners

South Carolina State University is the First HBCU Management Partner of any National Laboratory



Excellence in Community Service

- Team SRNL at American Heart Association CSRA Heart Walk
- UAV Team with South Aiken High School Students
- SEED Event



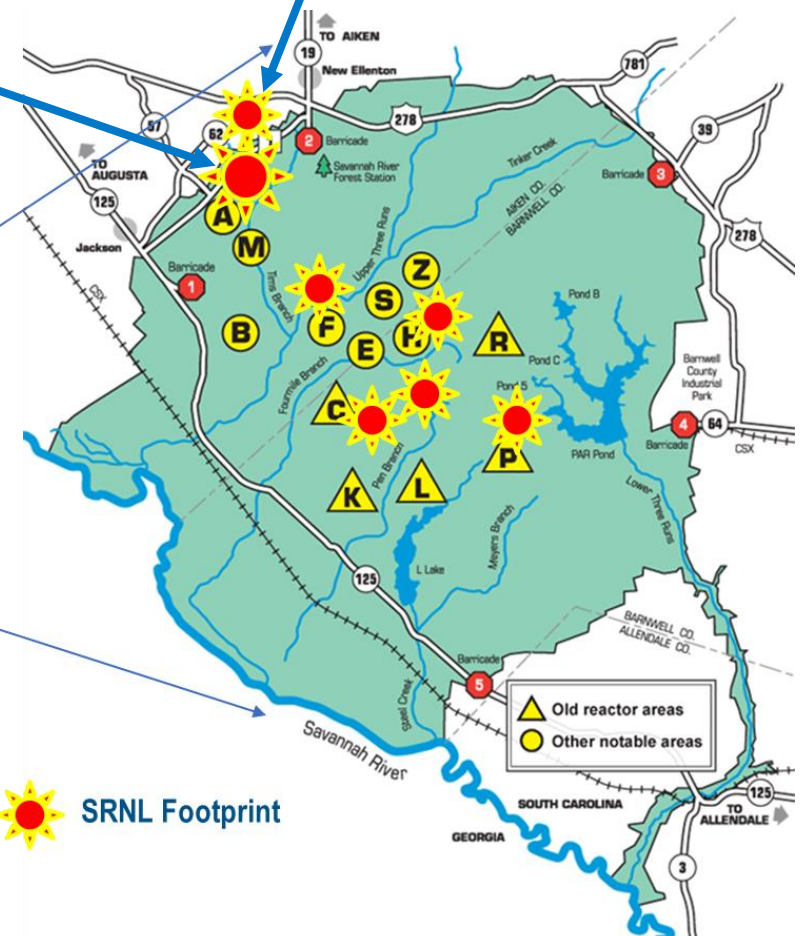
Job Shadow Day 2022

Where We Are Located

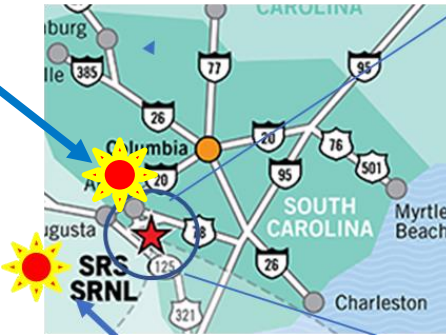


A-area

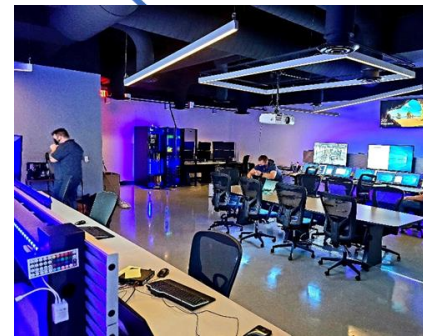
Aiken County Leased Facilities



Future- Advanced Manufacturing Collaborative at USC-Aiken



University Partner Collaboration



Georgia Cybersecurity Center

SRNL Footprint

Our Vision is Focused on Three Mission Outcomes Enabled by a Workforce Development Initiative

Environmental
& Legacy
Management

Environmental & Legacy Management
Provide risk-informed approaches that achieve sustainable regulatory end-states.

National
Security

National Security
Enable NNSA success by supporting a robust weapons stockpile while reducing threats through advances in proliferation detection technologies.

Science &
Energy Security

Science, Engineering, & Energy
Develop environmentally responsible and secure energy strategies through advanced engineering of materials & chemistry.

Workforce
Development

Workforce Development
Deliver the intellectual resources needed to execute the vision for the nation.

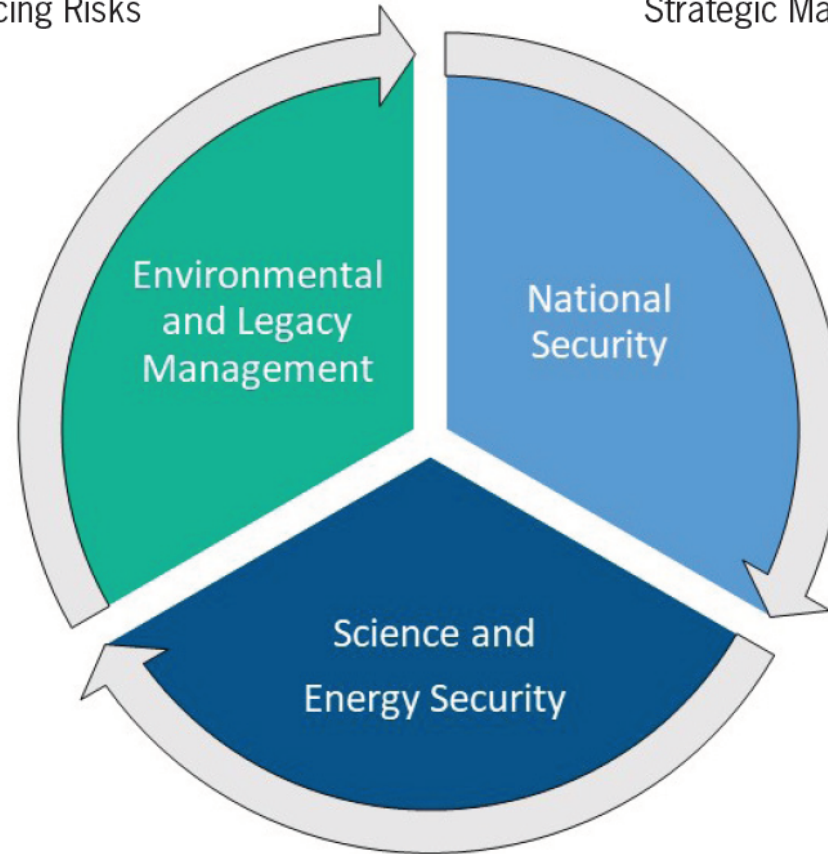
We Protect Our Nation by Applying Science to the Environment, Energy, National and Global Security Problems

**SRNL's Three
Mission
Areas and
Seven Core
Competencies
Provide
Solutions for
DOE and Other
Strategic
Partners**

Accelerating Remediation, Minimizing
Waste and Reducing Risks

Assuring Production and Supply of
Strategic Materials and Components

Enabling Next-
generation
Nuclear
Materials
Processing and
Disposition



Sensing,
Characterizing,
Assessing,
and Deterring
Nuclear
Proliferations

Creating
Manufacturing
Solutions for
Environmental
Management,
National
Nuclear Safety
Administration, and
Energy Security

Securing
Connected
Controls
Systems and
Associated Data

Engineering New Materials and Their Applications
with Data-driven Modeling and Simulation

Unique Capabilities

Radiological Evidence Examination Facility

- Unique capability designed for forensic analysis of contaminated evidence
 - Traditional and nuclear forensics
- Full-scale training for contaminated evidence collection
- Post-blast investigative training
- FBI certified laboratory



Atmospheric Data Stations and Modeling

- Atmospheric research, technology development, and operational support for the U.S. Department of Energy and other federal agencies
- Emergency response, international nuclear nonproliferation, climate change, and renewable energy



Underground Counting Facility

- Located 50 feet below ground level
- Has 4-inch-thick walls of pre-nuclear weapons era steel
- Highly sensitive measurements of ultra-low amounts of environmental radioactivity free from interference by background radiation
- Allows for low-noise nuclear measurements



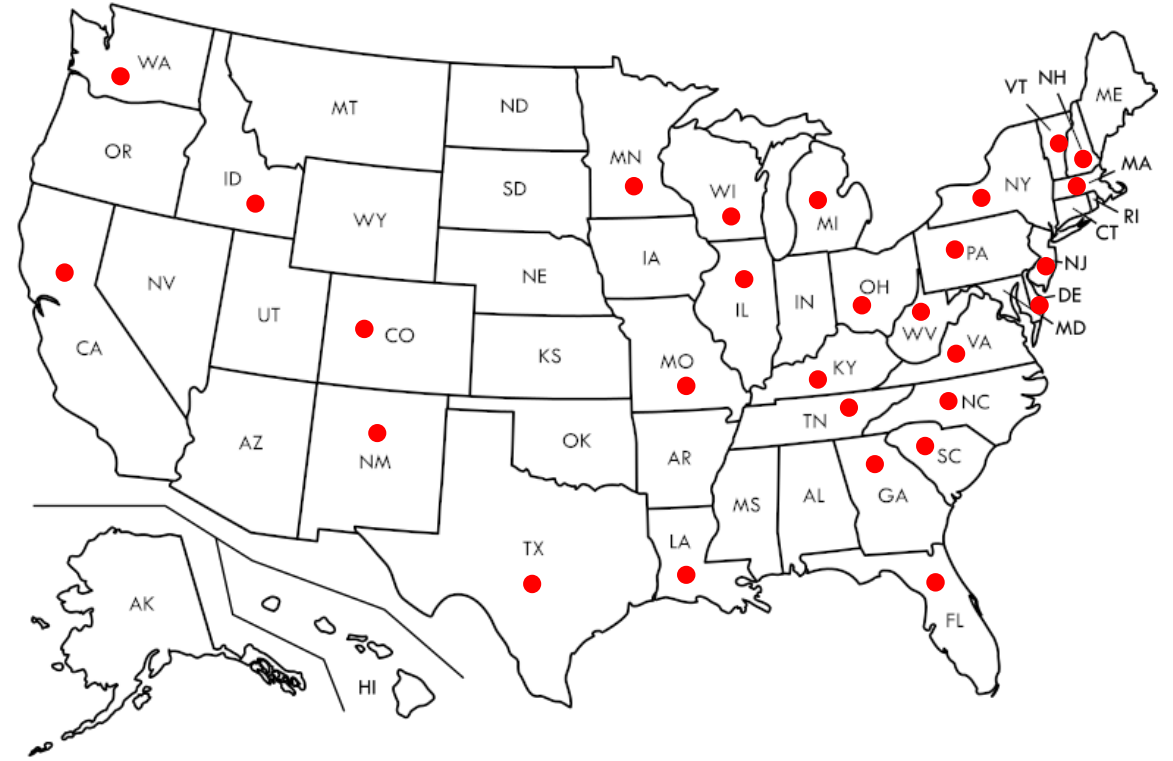
Shielded Cells

- Provides the ability to safely work with a wide variety of highly radioactive materials in support of nuclear technology development
- Sixteen 6x6-foot workstations, or cells, that feature exterior walls made of 3-foot-thick, high-density reinforced concrete with a 1/8-inch-thick stainless-steel liner



SRNL as an Economic Engine

- ~\$400M operating budget
- ~1100 Employees
- ~300 additional contract/support personnel
- Recent hiring data summary:
 - ~300 new hires over the past 26 months from multiple locations across the country
 - Increasing number of post doctoral researchers
 - Expanding intern/student program in conjunction with University partners
- Management of Minority Serving Institutions Partnership Program for DOE-EM
 - Recently expanded to include post doctoral researchers
- Construction of Advanced Manufacturing Collaborative will enable increased engagement with industry and academia to develop technology advances in support of DOE and NNSA missions



SRNL retirees predominantly stay in the area.