

Virtual Job Shadowing: Experience Job before Hiring

Virtual Job Shadowing is playing a central role in observance of the 2012 National Nuclear Science Week since the SRS Community Reuse Organization announced sponsorship of four new modules highlighting nuclear careers. Virtual Job Shadows are attention grabbing interactive lessons designed to introduce teenagers and young adults to a variety of careers.

The new nuclear modules, developed by Microburst Learning, will introduce users to careers for nuclear technicians, nuclear construction, nuclear technology research and nuclear medicine.

Virtual Job Shadow lessons allow students to experience jobs that may not be easily accessible otherwise. Students can complete Virtual Job Shadows to learn about careers in the 16 national career clusters.

Virtual Job Shadowing connects what a youth learns in school to what they can do in the real-world.

Virtual Job Shadowing

- Provides real life comparisons for everyday tasks and job specific tasks.
- Encourages students to focus on specific skills to prepare for a job in the specified career field.
- Creates a friendly and encouraging learning environment that grabs the students' interest through the use of interactive educational games.
- Answers common career related questions through video examples, subject matter expert interviews, pictures and narrated text.
- Gives students opportunities to experience the typical tasks of the career field through behind the scenes videos and interviews.

Two-State Area Highly Reliant on Nuclear Energy

Today, both South Carolina and Georgia are highly reliant on nuclear energy for much of their electricity production.

Together, Georgia's four nuclear units account for more than one-fourth of the state's electricity generation. South Carolina's five nuclear units supply about half of the state's electricity demand. Additional nuclear units are currently under construction or planned to meet future demand growth.

Historically, the two-state region of South Carolina and Georgia has welcomed a leadership role in developing and implementing technologies designed to advance both the peaceful and defense uses of nuclear energy. That support continues today as the nuclear industry as a whole anticipates a renaissance in construction of new generation facilities.

Where do nuclear professionals work?

From technologists to engineers, radiologists to doctors of nuclear medicine, there are many fields associated with nuclear science.

Here's a sampling of organizations that hire those with nuclear science expertise:

- Consulting Companies
- Radiological Physics
- US Department of Energy
- US Nuclear Regulatory Commission
- US Navy
- National Laboratories
- Nuclear Generating Companies
- Nuclear Vendors Designing Reactor Systems
- Hospitals and Medical Firms
- Pharmaceutical Companies
- National Defense Organizations
- Investment Managers
- Research Firms

For more information visit: www.srscro.org

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Welcome to

NATIONAL NUCLEAR SCIENCE WEEK!

Get to Know Nuclear

January 23 – 27 is National Nuclear Science Week.

During the week, educators, employers and citizens will participate in a national recognition of how human knowledge has directed the energy of our most fundamental component, the atom, to the service and progress of our communities and world.

With the theme "Get to Know Nuclear," activities during the week are intended to advance awareness of the key benefits of the nuclear science industry and to recognize the professionals who work in it every day.

www.nwinitiative.org

National
Nuclear
Science
Week

NWI NUCLEAR
WORKFORCE
INITIATIVE
Growing Our Own Through Collaboration
SRS COMMUNITY REUSE ORGANIZATION

SRS
COMMUNITY REUSE ORGANIZATION
two states, one future



Fostering a Deeper Understanding of Nuclear Technology

Secretary of Energy Steven Chu says National Nuclear Science Week is an opportunity for educators, employers and citizens to speak out about the critical value of nuclear science and technology to our future energy security and economic competitiveness

National Nuclear Science Week is a partnership between the host organization, the National Museum of Nuclear Science & History, in Albuquerque, New Mexico, and nuclear industry partners, including the Nuclear Energy Institute, Entergy, the US Department of Energy, the American Nuclear Society, and the Society of Nuclear Medicine.

Key goals of National Nuclear Science Week are to encourage education, participation and communication and to recognize the contributions of the nuclear science industry and those who work in it every day. In our two-state region, each day of the week will feature a different aspect of nuclear science:

Monday, January 23, Focus Area: National Nuclear Science Week

Tuesday, January 24, Focus Area: Local Nuclear Presence

Wednesday, January 25, Focus Area: Careers and Jobs

Thursday, January 26, Focus Area: Understanding Savannah River Site

Friday, January 27, Focus Area: Education Initiatives

Nuclear Renaissance Brings Well-Paying Jobs

As we observe National Nuclear Science Week, the promise of a nuclear renaissance has far-reaching implications for the two-state region of Georgia and South Carolina.

As home to the Department of Energy's Savannah River Site (SRS) for more than a half century, the region is heavily invested in nuclear technology, not only for its value to national security but as a source of well-paying jobs and economic growth fueled in large part by nuclear-generated electricity used by many industries in both states.

Nearly 10,000 new workers will be needed in the next decade to support the expansion of the nuclear industry in our region, a study conducted by Booz Allen Hamilton for the Savannah River Site Community Reuse Organization (SRSCRO) concludes.

In response to the survey data, the SRSCRO is implementing a unified strategy to address the region's nuclear workforce needs. Through its Nuclear Workforce Initiative (NWI®), SRSCRO is proactively bringing together the regional private and governmental employers, educational institutions and economic development entities to work as partners.

These groups are working together toward the single-minded goal of ensuring that an adequately trained workforce is ready in sufficient numbers to meet the challenges posed by the demand for a new nuclear workforce.

NWI® partners are particularly focused on ensuring that people of the region have an opportunity to develop the skills needed for regional nuclear industry jobs, know as "Growing Our Own Through Collaboration®."



DOE Grant Furthers Workforce Training in Region

Under a grant from the U.S. Department of Energy, nuclear training programs are being created by five educational institutions in the local region.

Dr. Susan Winsor, President of Aiken Technical College and Chair of the SRSCRO Nuclear Workforce Initiative, said the DOE grant is timely in helping area educational institutions gear up to provide the training needed to ensure the local workforce is ready for future jobs in government and commercial nuclear facilities and other high-tech opportunities.



"Nuclear employers, including the region's electric utilities, are forging ahead with their plans to increase reliance on nuclear power, and we know that future retirements will open additional opportunities within the Department of Energy and utility workforce," Dr. Winsor said. "We are also confident that existing and new high technology jobs in other industries will be needed as the area recovers from the recent economic downturn."

Skills developed through planned programs serve both nuclear and other high-tech industry sectors.

Training programs under development at each institution include:

- **Aiken Technical College**
 - Development and implementation of specialization certificates in quality control and nuclear welding
- **Augusta State University**
 - Development and implementation of nuclear science tracks in chemistry and physics degree programs
- **Augusta Technical College**
 - Development and implementation of an Associate of Applied Science Chemical Technology Program and a specialized nuclear advisement program
- **University of South Carolina Aiken**
 - Development and implementation of a specialized biology degree in environmental remediation and restoration
- **University of South Carolina Salkehatchie**
 - Expansion of Science, Technology, Engineering and Mathematics course work in the Salkehatchie region

Our region is special in its high number of well-trained workers in a nuclear industry that is critical to our nation. Our educational community is committed to continued education and training opportunities needed for jobs in our region.

SRS is Region's Largest Nuclear Employer

With some 11,000 workers, the Department of Energy's Savannah River Site is the major nuclear employer in the two-state region of South Carolina and Georgia. In fact, only Wal-Mart employs more people in the State of South Carolina.

SRS was constructed during the early 1950s to produce the basic materials used in the fabrication of nuclear weapons, primarily tritium and Plutonium-239, in support of our nation's defense program.

Today, SRS has shifted its strategic direction and resources from nuclear weapons materials production and is being proactive in seeking new mission opportunities. SRS remains a key Department of Energy industrial facility dedicated to:

- Environmental stewardship
- Clean Energy
- National Security Missions



In carrying out these missions, SRS is relying on 60 years of experience as a large-scale operations facility with world-class research and development capability. The Savannah River Site's physical assets combined with the exceptional technical knowledge and "can do" culture of the workforce has produced a legacy of achievement with unmatched safety and mission performance.

In addition, the Savannah River National Laboratory (SRNL) is a multi-program national laboratory which provides support for SRS, other federal agencies and DOE complex-wide missions. This combination of attributes makes SRS an attractive location for supporting a wide range of DOE and other national needs now and in the future.