

NUCLEAR ENGINEERING & OPERATIONS

Advancing missions of national importance in the government and commercial nuclear markets – fuel cycle, medical, energy, materials, and research.

NUCLEAR SAFETY ENGINEERING IN HIGHLY REGULATED AND HIGH CONSEQUENCE ENVIRONMENTS

Integrated safety and criticality analysis and siting/licensing, with on-site and remote delivery models to overcome the chronic shortage of talent

ENGINEERING/DESIGN FOR NUCLEAR PROCESSES AND SYSTEMS

Specialized engineering, design, fabrication, startup and commissioning for federal and commercial systems with NQA-1 and ISO 9001 compliance

NUCLEAR OPERATIONS SUPPORT

Readiness assessments, requirements and procedural development, training, and contractor/mission assurance



SUPPORTING DEVELOPMENT, DEMONSTRATION, AND DEPLOYMENT OF ADVANCED NUCLEAR TECHNOLOGY

- Small/flexible reactor systems for commercial, defense, and space power
- Advanced nuclear fuels for safe, reliable deployment
- Evolving and traditional enrichment technologies
- Isotope production for medicine, batteries, and neutron sources
- Material processing and waste dispositioning
- Fusion system development support for neutron generation
- Accelerator systems for research activities

Boston Government Services, LLC

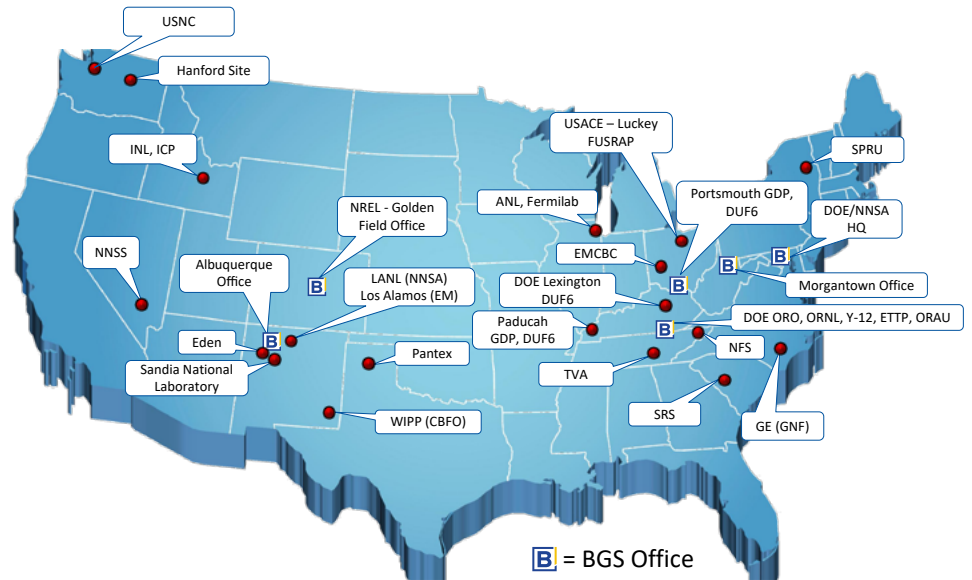
NE&O touches virtually all nuclear market segments in the nuclear technology, fuel cycle, and nuclear security industries, including advanced reactor and nuclear fuel technologies, enrichment technologies, isotope production, legacy facility characterization and cleanup, nuclear weapons programs, and nonproliferation.

- Engineering and technology support for research and development, test facilities, energy producers, and fuel/medical production sites
- Federal and commercial entity siting, safety, licensing, and operations
- Facilitating demonstration and market transition
- Nuclear nonproliferation
- Waste characterization, management, and planning

Experience Highlights

- Licensing and safety basis strategy and evaluation for the Oak Ridge National Laboratory's (ORNL's) Transformational Challenge Reactor, an additive manufacturing (3D-printed) small modular reactor
- Criticality safety analysis for legacy uranium enrichment facilities in Piketon, OH and Paducah, KY to enable facility D&D
- Engineering, design, fabrication, test (NQA-1), install, and start-up of a custom gas capture system for the Oak Ridge National Laboratory's Domestic Uranium Enrichment Centrifuge Program
- Engineering design and analysis for ORNL's Material Plasma Exposure eXperiment (MPEX) supporting fusion technology
- Integrated safety analysis to support licensing of a new medical isotope production facility under 10 CFR 70
- Safety basis development for INL related to Pu-238 in RTGs that NASA uses to power space exploration
- Engineering, design, and criticality safety analysis for commercial entities producing HALEU and TRISO fuels for advanced reactor applications

THE TALENT, EXPERIENCE, AND CAPABILITIES TO DELIVER SOLUTIONS FOR NUCLEAR ENGINEERING AND OPERATIONS ACROSS THE NATION



THE BGS ADVANTAGE

- Expert in complex, secure, and highly regulated environments
- Trusted partner for national laboratories, the nuclear industry, and technology providers
- Highly experienced staff and nuclear application Subject Matter Experts
- 100+ DOE cleared personnel
- Cybersecurity Maturity Model Certification (CMMC) Level III certified
- Quality Assurance Program: NQA-1, ISO 9001, 10 CFR 50, Appx. B
- Secure facilities and systems for remote delivery of services



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