

**Bidders must have specific knowledge of the Department of Energy (DOE), National Nuclear Security Administration's (NNSA) Office of Global Material Security (GMS) Program and its sub offices.**

## **Oak Ridge National Laboratory**

### **Statement of Work (SOW) for**

### **Protect Portfolio Nuclear Security Expertise (Domestic)**

## **1.0 INTRODUCTION**

### **1.1 Objective**

The objective of this work is to support the Oak Ridge National Laboratory (ORNL) with its implementation of nuclear security scope assigned by the Department of Energy (DOE), National Nuclear Security Administration's (NNSA) Office of Global Material Security (GMS) Program and its suboffices. This scope includes both domestic and international projects that are executed from domestic resources.

### **1.2 Background**

GMS serves as the lead U.S. Government program responsible for strengthening the protection and security of nuclear & radiological material, facilities and transportation organizations around the world. GMS executes its work through three program offices.

- Office of International Nuclear Security
- Office of Radiological Security
- Office of Nuclear Smuggling Detection and Deterrence

ORNL has broad tasking related to nuclear security to help DOE/NNSA reduce risk globally by providing leadership and technical experts to solve protection and interdiction problems. ORNL works collaboratively with other DOE laboratories and other government agencies as it carries out its mission. ORNL implements its mission through various risk identification analyses, protection designs, testing and evaluation, regulatory development, insider threat mitigation, cyber security, and transportation security. ORNL develops new and emerging technologies to address current and emerging threats and issues as well as anticipates the impact changing industries such as small modular reactors and alternative technologies to replace high activity sources.

ORNL partners with international partners to improve nuclear security at all levels from governmental laws, regulations, and oversight to the site level where security programs are designed and implemented. Transportation security is included within the spectrum of ORNL's international scope.

## **2.0 TECHNICAL REQUIREMENTS**

### **2.1 General Requirements**

The support provided will consist of technical planning, preparation, and execution of tasks for discipline areas spanning all three GMS Program Offices. The experts provided must have the experience and expertise necessary to assist ORNL to implement its mission both internationally and domestically. Technical expertise will include, but not limited to, knowledge and experience in nonproliferation project execution, international and domestic partnership engagement, programmatic strategy development and implementation, security and program design, sustainability, and team meeting planning and facilitation necessary for program execution. The experts must have a working knowledge of project management (may require PMP depending on tasks assigned), national level regimes, site security operations, training and instructional system design, and technical optimization and process improvement. Additionally, the experts must be familiar with domestic laws and regulations related to protection of materials, facilities and transportation as well as understand international (IAEA) requirements and recommendations for those same areas.

## **2.2 Tasks**

2.2.1 Staff Development. Seller will provide training to develop staff to execute roles for GMS positions. The training will include materials and sessions (group and individual) to grow/develop future leaders for program management, project team leads, and subject matter expert positions. The scope will include the development of materials and the performance of sessions with experts to build professional knowledge and capability. The training will include relevant topics such as strategic thinking, working in multi-disciplinary groups, working in diverse cultures, planning and organizing projects and meetings, and working with foreign nationals. Additional areas may also be added as needed.

### 2.2.2 Nuclear Security Expertise.

- Program Sustainability. Seller will provide nuclear security sustainability experts that can enhance ORNL's role within each of the three GMS program offices to design, assess, and implement sustainability programs. The experts will have specific knowledge of the GMS (and its subprograms) approaches to build programs for GMS as well as to help country teams implement sustainability measures and programs as part of capacity building missions.
- Country/Multi-Lateral Team Support. Provide expertise to country/multi-lateral teams to develop and implement strategies to improve nuclear security. The activities of this support may include proposals to enhance ORNL, NNSA, and partner organizations. The support will be in the form of team lead or deputy, sustainability manager, or subject matter expert.
- Program Analysis and Design. Seller will provide expertise to assist ORNL to conduct analysis of programs, provide recommendations for enhancement, recommend process or procedural improvements, and recommend metrics to measure effectiveness of programs. The experts

may also be tasked to participate on teams to design and implement program elements and program management systems necessary to assure an effective capability is achieved. This task may include activities involving programmatic integration across the GMS program as well as integration of various projects with each of the program offices.

- 2.2.3 Stakeholder Management. Seller will provide experts to assist ORNL in the engagement and management of stakeholders. This task includes the planning and implementation of engagement strategies involving program stakeholders for ORNL program areas. The activity will include goal setting, tracking and monitoring activities, proposing activities for engagement, development of communication strategies with stakeholders, and integration across government and industry organizations.
- 2.2.4 International Equipment Supply and Logistics. Seller will provide capability to help ORNL provide rapid deployment of equipment and technical services to international entities supporting contingency management needs such as military conflicts, economic collapse, or regime changes. The Seller must be capable to provide services on a global scale (greater than 80 countries) and have an international presence regionally to enable on-the-ground support when called upon.
- 2.2.5 International and domestic travel may be required as part of this scope. Trips will be planned, coordinated, and approved by ORNL's technical project officer.

### **2.3 Security Requirements**

- DOE Q Clearance may be required.