

noblis<sup>®</sup>

# COUNTERING CBRNE THREATS TO NATIONAL SECURITY

Noblis stands at the forefront in driving innovative CBRNE solutions from lab to mission



# DELIVERING BEST-IN-CLASS CBRNE COUNTERMEASURES TO ENSURE THE NATION'S SAFETY AND SECURITY

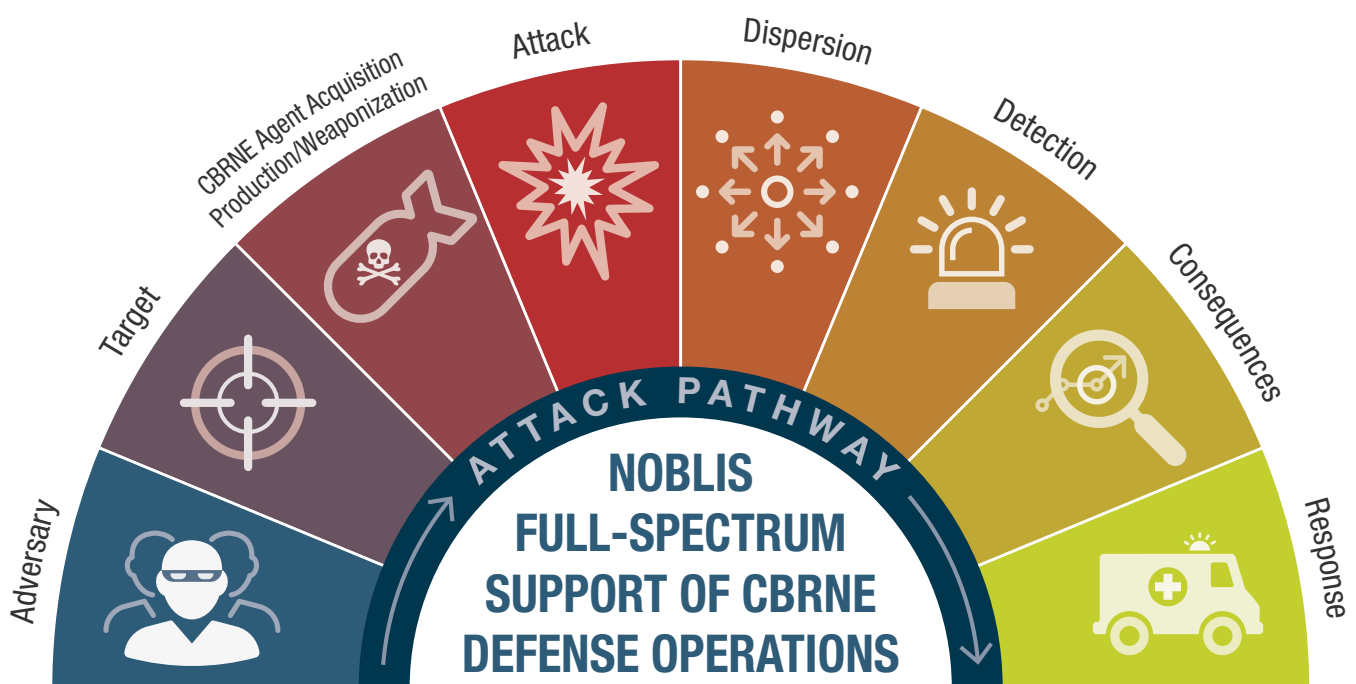
Our nation's homeland security, defense and intelligence leaders face increasingly sophisticated adversaries with deadly chemical, biological, radiological, nuclear and explosive (CBRNE) weapons. At Noblis, we know that developing leading-edge capabilities to detect, attribute, deter, respond to and prevent terrorist attacks is key to the security of our nation's future. Noblis is uniquely equipped to model, assess, analyze, predict, characterize and deter the full range of CBRNE threats. This complex mission relies on our forward-thinking, sustainable solutions to improve threat awareness, enhance surveillance and detection, and deploy effective countermeasures.

Emerging CBRNE threats in today's context of evolving budgetary and national priorities complicates the challenge. Noblis aligns scientific proficiency, unique tools and advanced technologies with our intimate understanding of our federal customers' mission needs to leverage solutions and deliver new and improved capabilities in defense preparedness. We work side-by-side with government leaders, maximizing budget outcomes and optimizing performance to support this increasingly complex and challenging mission.

## INTEGRATING EXPERTISE AND TECHNOLOGY ACROSS THE ENTERPRISE DELIVERS MISSION SUCCESS

Noblis deploys best-in-class scientists and engineers across the full operational landscape of CBRNE threats. We deliver cutting-edge advancements and novel technologies to help our government clients ensure the nation's safety and security. Concentrating scientific proficiency, unique tools and advanced technologies under the Noblis Center of Excellence (COE) provides agile and innovative solutions to our federal clients to assure mission success.

### Noblis Innovation Defeats Adversaries to Protect the Nation



# OUR CAPABILITY AREAS



## INTELLIGENCE AND THREAT CHARACTERIZATION

Noblis' threat intelligence experts, systems engineers and scientists work at the leading edge to analyze, assess and model our adversaries' evolving motives and capabilities, and provide the tools to defeat threats through precision risk assessment, vulnerability analysis and threat characterization.



## SURVEILLANCE AND DETECTION

Noblis is an industry leader in developing world-class bioinformatics tools to support our nation's rapidly evolving biosurveillance needs. Our bioinformatics expertise uses big data, advanced analytics and high-performance computing to create a layered defense against adversaries deploying biological weapons. Customized Noblis-designed bioinformatics tools for metagenomic analysis are utilized to detect, define, deter and defeat biological threats.



## MODELING, SIMULATION AND ADVANCED DATA ANALYTICS

Noblis leverages data fusion and analytics tools, including simulation, modeling, and knowledge management systems, to support all aspects of the CBRNE mission. We work in close collaboration with our government customers to develop unbiased and strategic technical solutions that are robust, practical, affordable, and innovative. Noblis develops agile solutions that deliver on our customers' missions today while building sustainable foundations for success tomorrow.



## FULL-SPECTRUM CBRNE DEFENSE MISSION SUPPORT

Noblis' industry-leading CBRNE experts provide critical program support for our nation's readiness, response and resilience in all cases of potential adversary attacks. From strategy planning and analysis through programmatic and logistical support, the Noblis approach is built on a foundation of technical excellence that enhances ongoing efforts to maintain and advance state-of-the-art defense innovation.



## TECHNOLOGY DEVELOPMENT LIFECYCLE

Noblis' 25 years of thought leadership, responsiveness, and mission focus on CBRNE defense equips us with the unique expertise and insight our federal clients seek. Our proficient coordination and implementation of research, development, testing and evaluation (RDT&E) facilitates independent verification and validation (IV&V) of the efficiency and effectiveness of CBRNE defense capabilities throughout the full-range technology development lifecycle.

## CLIENT SUCCESS STORIES

### NUCLEAR DEFENSE

Noblis provides the critical nuclear science expertise essential to sustaining an enduring national capacity to defend against nuclear threats. We have long supported cornerstone capabilities which strengthen our nation's defense posture by developing nuclear forensic analysis detection, and prototyping tools. Noblis also provides core expertise in strategic policy advisory and analysis to ensure nuclear security, protect the nation from terrorism and secure the Homeland.

### COMBATING SYNTHETIC BIOLOGY RISKS

While advances in genetic engineering promise the development of life-saving new vaccines and pharmaceuticals, these same tools in the hands of terrorists can be used to create deliberate and deadly weapons with the potential to inflict enormous harm on public health and safety. Noblis has countered this potential threat through the development of new tools and approaches to neutralize dangerously engineered organisms. This innovative program has synthetically produced an entirely new bacterial genome which Noblis deploys in combination with its cutting-edge bioinformatics program to expedite the detection, containment and neutralization of hostile and highly toxic engineered organisms.

# DOING WHAT'S RIGHT AND WHAT WORKS FOR OUR CLIENTS

Noblis fosters a culture of collaboration. Through our Centers of Excellence (COEs), we are connecting our staff so that they may better serve our clients. The COEs reach across domain areas and our two companies to ensure the right capabilities, people, tools, and expertise are applied to our work. This enables us to offer every client the best solutions to fit their needs and challenges.

## ABOUT NOBLIS

Noblis is a nonprofit science, technology, and strategy organization that brings the best of scientific thought, management, and engineering expertise with a reputation for independence and objectivity. We work with a wide range of government and industry clients in the areas of national security, intelligence, transportation, healthcare, environmental sustainability, and enterprise engineering. Together with our wholly owned subsidiary, Noblis ESI, we solve difficult problems of national significance and support our clients' most critical missions.

## WORKING WITH US

Government agencies can access Noblis through a variety of contracting mechanisms. We have several IDIQ contracts in place and available to civilian and DoD agencies. We are also a GSA Schedule holder. For a full list of vehicles, visit [noblis.org](https://noblis.org).