

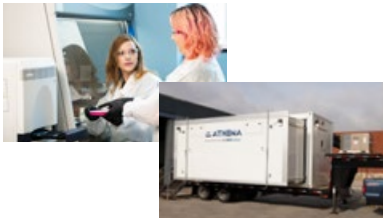


# Innovative Solutions to Important Challenges

## HISTORY AT A GLANCE

MRI Global was founded in 1943 as a research and development institute to support industry, provide jobs, and advance scientific knowledge.

### 2020s



#### DEVELOPING DIAGNOSTICS, BIOSAFETY, AND TRAINING

- Developed Emergency Use Authorization assays for SARS-CoV-2 (COVID-19) and models to test efficacy of therapeutics, prophylaxis, and vaccines
- Expanded mobile laboratory offerings to include Mercury (single-person, portable lab workbench), Athena (expandable, shippable lab), CBCS (44-foot long, flyable bio-containment unit), and Vesta (drivable, mobile lab)
- Developed artificial intelligence (AI) and virtual reality (VR) technology to train scientists in labs for analytical work around the world and to train warfighters for remotely controlling unmanned ground vehicles

### 2010s

#### ADVANCING IN NEW FIELDS

- Developed next-generation molecular diagnostics and therapeutics; medical countermeasures to address chemical and biological threats; and repository operations for cancer research
- Identified/qualified CBRNE equipment for Common Analytical Laboratory System requirements
- Invented the first U.S. Food and Drug Administration approved therapeutic designed for use with injuries caused by exposure to sulfur mustard



### 2000s



#### PROTECTING OUR NATION

- Established National Capital Region laboratories with 24/7/365 biodefense and biosurveillance for the U.S. government
- Opened Maryland office for advanced services in international biothreat prevention
- Provided threat defense support for the Edgewood Chemical and Biological Center
- Developed mobile analytical laboratories and advanced CBRNE detection technologies

### 1990s

#### SAFEGUARDING OUR WARFIGHTERS

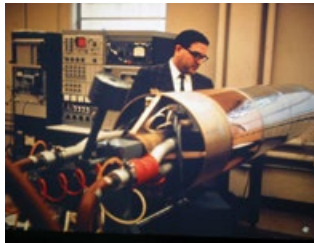
- Created demilitarization programs for chemical weapons with the U.S. Army
- Developed thermo-electric cooling devices used by pilots in Operation Desert Storm; technology won an R&D 100 award
- Researched new pharmaceuticals and studied diseases of Gulf War veterans
- Introduced SpinCon® air sampler for monitoring contaminants
- Conducted health studies examining AIDS, electromagnetic fields, smoking cessation, and lead exposure



# HISTORY AT A GLANCE

MRI Global was founded in 1943 as a research and development institute to support industry, provide jobs, and advance scientific knowledge.

## 1980s



### ENSURING SAFETY

- Created printed circuit board transformers and solutions for leaking underground storage tanks for hazardous waste management practices
- For the National Cancer Institute, studied safety and efficacy of cancer and AIDS treatments; performed health studies with Vietnam veterans
- Continued focus on renewable energy, including wind, solar, hydrogen, and biomass projects
- Launched solar desalination project in Saudi Arabia

## 1970s

### PROTECTING OUR EARTH

- Served as the original management and operations contractor for Solar Energy Research Institute, now called National Laboratory of the Rockies (NLR), and continues to develop NLR into a world-class research center that focuses on new, clean energy technologies
- Worked with the U.S. Environmental Protection Agency, winning the single-largest contract to date, \$2.8 million
- Protected human health through analytical services for the Environmental Toxicology Program
- Developed methods for analyzing samples of blood and washings to develop specimen acquisition kits which became a widely accepted means of screening 44 commonly used drugs, among them marijuana and alcohol

## 1960s



### FROM OUTER SPACE TO KANSAS CITY

- Worked on technology projects for NASA including vaccines, hearing aids, transistors, aircraft controls, and many new devices and processes
- Established regional economics laboratory, which analyzed and projected regional income, population, productivity, and trade
- Led construction plan for Kansas City International airport

## 1950s

### PRODUCING BETTER AND SAFER FOOD INDUSTRY PRODUCTS

- Developed food and agricultural products, including:
  - Perfected the chocolate candy coating process
  - Created soluble coffee and early auto-drip coffee maker for J.A. Folger & Co.
  - Improved dishwashing liquid by studying the effect detergents have on skin

- Analyzed and designed water distribution systems

- Conducted air pollution and smog studies



## 1940s



### A NEED FOR CHANGE IN KANSAS CITY

- In the 1940s, many early projects emphasized chemistry and reflected Kansas City's agricultural base
- Converted ammonium nitrate to usable fertilizer, enabling the conversion of military weapons plants in Kansas and Missouri to peacetime use
- Synthesized and screened organic compounds in the fight against cancer
- Provided engineering support in aircraft stability, high-frequency electronics, and recoilless rifle projects