



Biomedical Research and Development

Innovative Human Health and Performance Expertise for Complex Environments



KBR delivers unique human health and performance insight for our customers thanks to our symbiotic set of specialized laboratory research and advanced technology experience. Our success is founded on a very effective and integrated team of scientists, physicians, and engineers who take pride in collaboration and providing the most innovative solutions for complex biomedical operations around the world.

AREAS OF EXPERTISE

KBR's biomedical research and development capabilities and expertise include:

Laboratories: Operation of "wet labs" and the performance of standard and specialized screenings related to toxicology, microbiology, nutritional biochemistry, pharmacology, radiation biophysics, immunology, muscle research, and clinical medical testing.

Specialized Instrumentation: Utilization of specialized medical instruments and technology such as bone densitometers and peripheral quantitative computed tomography systems.

Development and Operation: Creation of specialized hardware to evaluate neurovestibular, cardiovascular, and exercise-related fitness.

3D and Virtual Reality: Development and application of human modeling, virtual reality and animation to address human engineering issues in spacecraft design and analysis. Experience in equipment, procedure, and systems design to optimize biomechanics, human performance and ergonomics.

Research and Testing: Extensive experience conducting both human and animal research in highly constrained environments and under special test conditions including underwater, in microgravity, during aircraft parabolic maneuvers, in remote and extreme ambient conditions, and in high acceleration environments.





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PROVEN PERFORMANCE

Ranging from neuroscience and nutrition to toxicology, immunology and radiation biophysics, KBR's experience includes operating more than 15 National Aeronautics and Space Administration (NASA) laboratories, managing multiple specialized test facilities, and conducting applied biomedical research in space. Our team of research professionals also support NASA's Solar System Exploration Research Virtual Institute (SSERVI), Astrobiology Institute, and the NASA Aeronautics Research Institute (NARI). Our biomedical experience extends to clinical testing, which has occurred at renowned locations such as the International Space Station, the world's only underwater research station, semi-closed containment facilities, and Antarctica.

WHY KBR?

KBR is a synergistic team of teams. The vast shared knowledge base between our talented and passionate scientists, physicians, technicians, and operations personnel helps them to work together tirelessly across the globe, seeking revolutionary solutions in support of our clients' ongoing scientific explorations. Our diverse laboratory and research experience lets us deliver unique insight, no matter the project.

NEXT STEPS

Let's talk about your biomedical research goals and how KBR can help you achieve them. Contact us to learn more and schedule a consultation with HHPC Collaboration Director and Program Management Special Assistant Lauren Merkle at lauren.merkle@us.kbr.com.

ABOUT US

We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 28,000 people worldwide with customers in more than 80 countries and operations in 40 countries.

KBR is proud to work with its customers across the globe to provide technology, value-added services, and long-term operations and maintenance services to ensure consistent delivery with predictable results. At KBR, we are the Team Behind the Mission.