

# S-E-A Health Sciences Solutions Practice

**SE**<sup>TH</sup>  
ANNIVERSARY  
Forensic Engineering,  
Investigation and Analysis  
Since 1970



Know.

S-E-A Health Sciences Solutions, with its technical expertise and laboratory capabilities, is uniquely positioned to be a solutions provider for clients across industry.

**“Applying the principles of science and engineering to health and well-being.”**

S-E-A Health Sciences Solutions offers a multi-disciplined team of experienced engineers and scientists supported by sophisticated investigative facilities. Our Health Sciences Solutions group offers a collaborative environment to assess complex issues and provide clients with informative insights and scientific understanding.

## Health Sciences Solutions Laboratory

*In-vitro Dynamic Fatigue Testing*  
*3D Range of Motion Analysis*  
*Implant Micromotion and Subsidence Evaluations*  
*Device/Surface Contact Studies*

## Toxicology & Forensic Pharmacology

*General & Specific Causation Analysis*  
*- Occupational Environmental Toxicology*  
*- Forensic Pharmacologic Evaluation*  
*• Medication and Consumer Product Use and Misuse*  
*Product Component Assessment*  
*Comprehensive Literature Review and Analysis*

## Materials Analysis & Chemical Laboratory

*Fracture/Failure Analysis*  
*Material Identification and Characterization*  
*Contaminant Evaluation and Identification*  
*Wear/Debris Analysis*  
*Competitive Analysis and Evaluation*

## Biomechanics, Human Use & Mobility Studies

*Biomechanical Analysis*  
*Motion Capture*  
*Device Usability*  
*Kinematic Modeling*  
*Injury Risk and Thresholds*

## Medical Visualization Center

*Surgical Techniques*  
*Application of Medical Devices*  
*Anatomic Structures*  
*CT/MRI Scan Visualization*

## Human Factors

*Device Warnings & Instructions Evaluation*  
*User-product Interaction Assessment*  
*Consumer Risk Analysis*  
*Usability Testing*

**Learn more here!**

[sealimited.com/health-sciences](http://sealimited.com/health-sciences)

**CONTACT US — WE'RE READY TO ASSIST.**



**Caleb Russell**

Health Sciences Solutions, Client Relations

(614) 981-6105 mobile | [crussell@SEAlimited.com](mailto:crussell@SEAlimited.com) | S-E-A Columbus



We test.  
We investigate.  
We reveal.  
We explain.  
**So you know.**

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