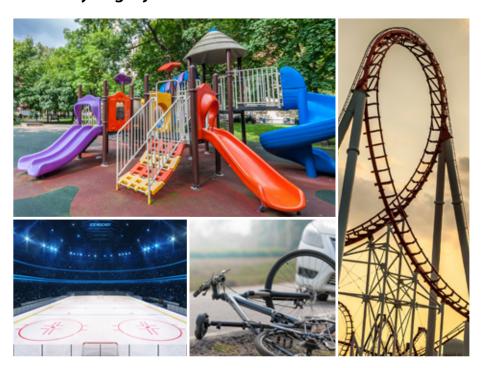
## S-E-A Biomechanical

Bridging the gap between physical sciences and medical sciences to analyze how people interact with their environment.



# Why Trust Your Biomechanical Evaluation Needs to S-E-A?

Our multi-disciplinary team of professionals, technicians, and support staff, provide a comprehensive approach to solving problems, evaluating incidents, and analyzing injuries.



## How can we assist with your next case?

### Our knowledge, capabilities and experience include:

- Falls, Slips, Trips
- Pedestrian Accidents
- · Entertainment & Recreation
- Workers' Comp/Industrial Accidents
- · Retail & Hospitality
- Sporting Accidents
- Elevators, Escalators, People Movers
- Safety

- Design
- PPE
- Lighting & Visibility
- Warnings & Labels
- Perception & Reaction
- Standards & Codes
- Durable Medical Equipment
- Vehicke Accidents

#### **ABOUT S-E-A**

### Forensic Engineering, Investigation, and **Analysis since 1970**

A powerful resource in litigation for more than 50 years, S-E-A is a multi-disciplined forensic engineering, fire investigation, product testing and visualization services company specializing in failure analysis.

S-E-A's full-time staff consists of licensed/registered professionals who are experts in their respective fields. S-E-A offers complete investigative services, including: marine, mechanical, biomechanical, electrical, civil and materials engineering, as well as fire investigation, industrial hygiene, toxicology, visualization services, and health sciences — along with a fully equipped chemical laboratory. The company's Health Sciences Practice is responsible for the testing of medical devices and provides analysis of surgical techniques. A Vehicle Dynamics division tests on- and off-road vehicles in addition to conducting autonomous vehicle testing and establishing industry standards. In addition, S-E-A may employ 3D laser scanners and drones to provide support. Should animations, graphics or medical illustrations be needed, S-E-A's Imaging Sciences team can work closely with field staff to clearly depict what really happened. Together, these disciplines interact to provide thorough and independent analysis that will support any subsequent litigation.

# S-E-A brings experience and expertise, coupled with the latest technology to our clients.

S-E-A's biomechanical professionals have the formal education, training and experience to analyze the effects of applied forces and motion on the human body, and how a human physically interacts with its environment.







# **S-E-A Biomechanical Related Services:**

- Animation
- ATD Testing
  - Fully instrumented seated and pedestrian anthropomorphic test device (ATD)
  - Incident specific biomechanics testing experience and capabilities
- Crash Testing Experience
  - Single vehicle (barrier/rollover/pole)
  - Vehicle to vehicle (frontal, side, rear)
  - Heavy vehicles
  - Sled testing

- Injury Reconstruction/ **Evaluation** 
  - Slips, trips and falls
  - Industrial accidents
  - Construction accidents
  - Pedestrian accidents
  - Product liability
  - Worker exposure/ergonomics/PPE
  - Sports related injury/protection
  - Medical devices
  - Vehicle accidents
  - Human factors
- MADYMO
- Medical Illustration
- Motion Capture
- Surface Impact Tester

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



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