A central resource for practitioners, researchers, and consultants to develop sustainable safety initiatives across air transportation as well as other high-consequence industries.
About the Center for Aviation Safety Research

The Center for Aviation Safety Research (CASR) was established at Saint Louis University by the U.S. Congress to solve crucial aviation safety research questions.

CASR serves as a central resource for transfer of best practices across air transportation and other high-consequence industries such as healthcare, nuclear power, and chemical industries.

Leaders in Safety Research

CASR advances Saint Louis University’s goal—to develop top-quality academic and research programs—through professional development courses, conferences, research projects and scholarly publications.

Research results are shared through the Center’s International Journal of Safety Across High-Consequence Industries, and related conferences bring together professionals from non-aviation disciplines to discuss new developments in safety research.

CASR Structure

Administratively, CASR is headed by Manoj S. Patankar, Ph.D., executive director and principal investigator of the research grant, and it is housed in the Department of Aviation Science in Parks College of Engineering, Aviation and Technology at Saint Louis University.

Due to the multidisciplinary nature of the research, faculty from business, humanities, law, medicine, nursing, public health and social sciences are actively engaged in CASR.

Further, two advisory groups—an internal group from SLU and an external group consisting of industry personnel and other safety experts—are involved in providing strategic guidance to the Executive Director.

CASR Fellowship Program

In an effort to facilitate and fund safety-focused, cross-industry projects, CASR awards fellowships. Apply on the CASR website.

CASR Professional Development Courses

CASR offers courses focusing on safety and leadership geared toward organizational managers and leaders. Course offerings are listed on the CASR website.
CASR Strategic Priorities
As commercial aviation continues to grow, the need for sustainable safety programs, initiatives and strategies becomes more critical. To foster a proactive approach to aviation safety, air carriers, maintenance organizations and regulators are shifting to a systems approach to safety.

CASR brings together practitioners, researchers, and consultants to develop sustainable safety initiatives across air transportation as well as other high-consequence industries.

Seven systemic safety research priorities:

- Business benefits of safety management system
- Incident analysis
- Maintenance Aviation Safety Action programs
- Multi-risk assessment
- Next-generation safety assessment
- Next-generation maintenance
- Safety culture assessment

Research in the above seven areas will be focused in the Aviation domain, but as the body of knowledge grows and becomes more robust, it can be applied in other high-consequence domains such as healthcare, nuclear safety, and chemical safety. Thus, the overall sustainability of CASR relies on broadening the funding model and revenue from multiple government and private sources.

CASR Conferences and Publications
The Safety Across High-Consequence Industries Conference provides a unique forum for researchers and practitioners from aviation, healthcare and other high-consequence fields to share their experiences, present experiential case-studies and above all, forge new partnerships that foster collaborative problem-solving.

CASR holds additional conferences throughout the year to answer industry needs.

The International Journal of Safety Across High-Consequence Industries serves as a distinctive repository for the publication of research by experts in high-consequence industries. Instructions to submit articles and information on purchasing the Journal are on the CASR website.
For more information on Saint Louis University’s Center for Aviation Safety Research, visit parks.slu.edu/faculty-research/casr.