



# Collaboration Opportunities

The ASI actively engages with the industry, government agencies, institutes of higher learning, and other research centres to increase the relevance and impact of our research. We welcome discussions on establishing new partnerships that support this aim, leading to greater value for the aviation ecosystem.

## Research and Industry Development

The ASI welcomes partnerships to overcome aviation challenges of mutual interest. These areas could include:

- Joint Research Activities
- Commercialisation of Prototypes
- Seed-Funding of Exploratory Research
- Exploration of Proprietary Datasets
- Platforms for Stakeholder Engagement
- Verification and Validation Activities
- Scoping of Problem Statements

The ASI also welcomes collaborations that help nurture talents and broaden the understanding of all industry perspectives, such as:

- Collaborative Experience Exchange
- Co-Development Internships
- Industry Feedback and Advice
- Short-Term Research Exploration (Master's Studies)
- Longer-Term Research Projects (PhD Studies)
- Sharing of Industry Perspectives
- Technical Training



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# AVIATION STUDIES INSTITUTE

 SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN | Aviation Studies Institute

 Aviation Studies Institute



# Introduction



The Aviation Studies Institute (ASI) in the Singapore University of Technology and Design (SUTD) is established jointly with the Civil Aviation Authority of Singapore. The ASI aims to be one of the world's leading centres of aviation policy research and thought leadership, dedicated to address the needs of aviation stakeholders and Air Traffic Management (ATM) policy-makers, for the advancement and development of aviation in the Asia-Pacific region.

The future of aviation rests on a culture of collaboration. ASI supports this vision and takes a collaborative approach in its research efforts, capability development and engagement activities.

# Vision & Mission

The ASI's vision is to be a world-leading research centre in aviation and air traffic management, with a focus in the Asia-Pacific region. The ASI:

- Conducts operational, economic, and policy-relevant research in aviation and air traffic management;
- Understands and articulates the aviation challenges of states like Singapore within the Asia-Pacific region;
- Provides new insights, perspectives, and potential solutions to aviation challenges faced by the regional and international aviation community; and
- Nurtures a community of local and global scholars based in Singapore who will promote sustainable aviation growth and develop innovative solutions to the challenges confronting Singapore and the wider region.



# Research Capabilities

The ASI pursues research through the following three research tracks:

## ASEAN Network Collaboration Using FF-ICE



This research track focuses on the opportunities and challenges presented by greater collaboration in air traffic management across ASEAN. The research aims to investigate the trade-offs and priorities for the region as it develops, as enabled by greater information availability and digital communications. It attempts to develop solutions that provide insights, directions, as well as opportunities that foster collaboration across multiple stakeholders.

## Airfield and Airspace Management



This research track focuses on overcoming challenges to integrate both airfield and airspace operations in an optimised manner. The research considers both the complementary and competing perspectives of air traffic management, airport management and airline management. The research seeks to develop software that can automate these processes for rapid evaluation and decision support.

## Translational Research



This research track focuses on the translation of research into useful aviation tools. It translates early research insights into applied outcomes, through the creation of demonstrable software prototypes. Activities include active stakeholder engagement and systems integration. ASI is keen to collaborate with industry and non-industry partners to broaden and mature these developments further to benefit the wider aviation community.

# Research Leadership



**Peter Jackson**

Institute Director  
Aviation Studies Institute, SUTD



**Nuno Ribeiro**

Principal Investigator  
Aviation Studies Institute, SUTD

Assistant Professor  
Engineering Systems and Design, SUTD



**Jamie Bloomfield**

Lead (Translational Research  
and Industry Engagement)  
Aviation Studies Institute, SUTD