



THE UNIVERSITY
OF THE
WEST INDIES
ST. AUGUSTINE CAMPUS



ST AUGUSTINE INDUSTRY INNOVATION LAB

UWI is proud to announce its "St. Augustine Industry Innovation Lab" (Sail), established in conjunction with the Inter-American Development Bank (IDB) and CONNECT Bogota.

UWI Sail can empower R&D in your company by linking your "Challenges" to groundbreaking, innovative solutions from "Solvers".

This unique programme encourages research and development through open innovation. Contributing your solutions will help optimize processes, improve sustainability, and introduce groundbreaking technologies and commercial products in real-world applications.

Innovative, Actionable Ideas

Solvers must propose creative and practical solutions that directly address the outlined challenges, ensuring they are feasible within the given constraints.



Willingness to Collaborate

Collaboration with industry leaders, academic experts, and other stakeholders is essential to refine and implement solutions effectively



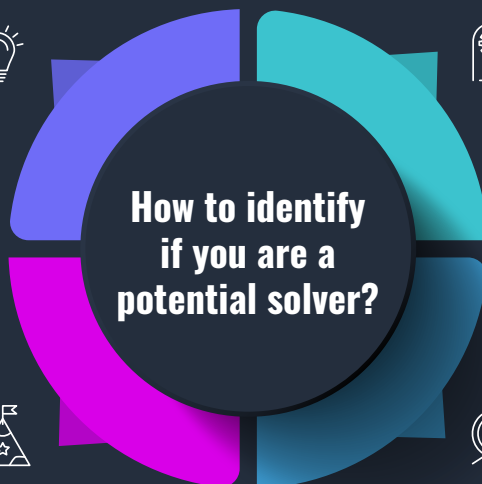
Technical Expertise

Solvers should have relevant technical knowledge and experience, as their solutions will need to demonstrate an understanding of industry-specific processes and technologies.



Deliverable-Oriented Approach

Solvers must commit to meeting timelines, producing high-quality deliverables, and adhering to project expectations outlined in the challenge description.



**How to identify
if you are a
potential solver?**

Benefits for solvers



How does it work?

Challenges Overview

The SAILL program presents **eight real-world challenges** faced by industry leaders, offering solvers an opportunity to contribute innovative and impactful solutions.

Where to Find Challenger Information

Summary descriptions of each challenge will be made available after registering your expression of interest. More details will be available on the UWI Ventures App. This includes the company profile, challenge scope, and requirements.

Present a Solution Idea

Understand the challenge thoroughly, **outline your solution idea clearly** with relevant methods and technologies, and highlight its expected impact with supporting evidence.

Connecting with Challengers

After being selected as a solver, **collaboration with challengers** is facilitated through SAILL's communication channels, including full support and mentorship of the STACIE team.

The proposals for solutions to the challenge posed that are registered within the established deadlines and that meet all the requirements will be evaluated by a panel of technical committee, who will use the following criteria as a qualification framework

Evaluation Criteria

RELEVANCE AND FEASIBILITY - How well the solution aligns with the challenge objectives, and the practicality of implementation within the given timeline and resources.

IMPACT - The potential positive outcomes of the proposed solution. This includes the long-term benefits to the industry, community, and environment.

TECHNICAL ACCURACY - Soundness and reliability of the proposed methods and optimal use of materials and energy.

INNOVATION/ SCALABILITY - Ability to scale the solution and respond to the needs in relation to the CHALLENGE, and the uniqueness of the idea.

TECHNOLOGY/ PRODUCT/SERVICE - Level of development of the solution and ability to solve the proposed challenge.

How to apply?

1. Visit the UWI Ventures App at <https://sta.uwi.edu/stacie/solvers-call-proposals>
2. Review the listed challenges and select the one most aligned with your expertise.
3. Complete the application form with your proposed solution and any required supporting information.
4. Submit your application before the deadline: February 14, 2025.

CHALLENGES

Improving the Efficiency at a Lube Oil Blending and Grease Plant

There is a need to enhance the overall efficiency of a lubricant manufacturing process, to meet increasing demand for lubricants with aging infrastructure. The challenge is to determine existing issues and implement advanced technological solutions that enhance production workflows, reduce waste, and minimize occurrences of defective products, such as leaks. High product quality and adherence to environmental and safety regulations must be maintained.

Sustainable Supporting Processes for Manufacturing

VEMCO aims to develop sustainable solutions for cleaning-in-place (CIP) processes and wastewater treatment in the food and beverage industries. The challenge seeks to reduce the environmental impact by cutting down on harsh chemical usage while maintaining cleaning effectiveness and speed. Additionally, it includes improving wastewater treatment for CIP effluent and plant discharges. The focus is on innovative, eco-friendly solutions with potential co-development, targeting implementation by the end of fiscal year 2026.

Plant-Based building economic clusters for mangrove conservation

Smart Mountain aims to develop an AI and DLT-powered valuation system, to accurately assess and monetize mangrove ecosystems, brokering the relationships between financing (e.g. debt-for-climate swaps), environmental credit markets, eco-service providers and land owners.

EcoWash

Kairos General Services and Consultancy Ltd is developing EcoWash, a line of eco-friendly detergents designed to minimize environmental impact and enhance their franchise offerings. This initiative aims to meet international demand for sustainable cleaning solutions, aligning with the company's commitment to innovation and sustainability. The project positions Kairos to compete effectively in the eco-conscious market by offering products that deliver both environmental and commercial benefits.

Optimization of parts management in manufacturing.

This challenge is to resolve inefficiencies in parts nesting, marking, and sorting, which are currently done manually. These manual processes lead to material waste, increased production time, and errors in component tracking, affecting production efficiency and quality.

Reducing systemic risk through business intelligence.

The TTSEC's major objectives include investor protection, fostering a fair and efficient securities market, building confidence in the securities industry and mitigating systemic risk. The TTSEC is interested in developing a data solution that will aid in achieving its mandate under Section 6(l) of the Securities Act, 2012 ("SA 2012"), to "assess, measure and evaluate risk exposure in the securities industry.

WeGreenArmy

Smart Energy aims to capture the strategic vision and desired impact of the WeGreenArmy platform, emphasizing its role in uniting and mobilizing the green community

- Interactive Design: A mobile-friendly application that is visually appealing and easy to navigate, encouraging widespread adoption and participation.
- Social Integration: Seamless integration with social media platforms to share achievements and promote environmental success stories.
- Reward System: An engaging points system that incentivizes and rewards sustainable actions with tangible benefits, enhancing user motivation and retention.

Doh waste good food (Don't waste good food)

The company is advancing its innovative food waste management program by developing solutions beyond traditional composting. The goal is to establish a comprehensive ecosystem of services for clients, addressing food scraps in ways that exceed standard practices. This approach aligns with the food waste hierarchy, prioritizing reduction and the redirection of food scraps to feed people and animals before any transformation processes. This initiative, aims to maximize resource utilization and support sustainable waste management solutions for its partners.

Sargassum for innovative skincare

This sargassum for Innovative Skincare Challenge is a valuable initiative that aligns with CZITT's strategic objectives of promoting sustainability, innovation, economic development, and environmental stewardship. By addressing this challenge, CZITT can contribute to a more sustainable and prosperous future for Trinidad and Tobago.

Plant-Based Cheese Development

Veusse Naturals Ltd, a small company specializing in plant-based cheese, is seeking to develop a standardized product that meets industry standards for export into the US market. With limited in-house capacity for scaling production, Veusse Naturals aims to address technical challenges related to recipe development, food safety and quality control.