

RAYTHEON SOURCING EVENT
Wetsuit Elastic Foam with High Thermal Insulation
Technology Transfer ICP Project

Organizer: Industrial Cooperation Program Office, Industrial Development Bureau

Sponsor: Raytheon Company

Date: 2022/01/26 14:30-16:00

Location: MIRDC, 6F, No. 162-24, Sec. 3, Hsin-Yi Road, Taipei 10658, Taiwan ROC
(台北市大安區信義路三段 162-24 號 6 樓)

Introduction

Raytheon Company, with 2020 annual sales of \$74 billion (pro forma combined annual revenue), a technology and innovation leader, is one of the world's largest aerospace and defense companies. Our business areas specialize in defense, homeland security and other government markets. Raytheon provides state-of-the-art electronics, mission systems integration and other capabilities in the areas of sensing; effects; and command, control, communications and intelligence systems, as well as a broad range of mission support services.

Raytheon has a long and successful track record of participating in Taiwan's Industrial Cooperation Program (ICP), having completed many ICP projects with significant positive impact on Taiwan's local economy. Raytheon's commitment to Taiwan industry is evidenced by its agreement with the Ministry of Economic Affairs (MOEA) to develop joint projects with Taiwan's industry and as MOEA's recipient of its first Achievement Award as "Outstanding Industrial Cooperation Partner."

Technology Partner

BASF is a German multinational chemical company and the largest chemical producer in the world. The BASF Group comprises subsidiaries and joint ventures in more than 80 countries and operates six integrated production sites and 390 other production sites in Europe, Asia, Australia, the Americas and Africa. BASF portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €59 billion in 2020.

Project Summary

1. Scope

- BASF will transfer fabric technology related to thermoplastic polyurethane together with green physical foaming. This innovative technology forms a composite providing thermal insulation layers.
- Develop best-fit physical foaming technology for this new invented heat insulation materials and transfer the technology to selected partner in Taiwan.

2. Technology to be transferred

- The fabric material technology to be transferred is focused on heat insulation materials to reduce the energy and wastes of production in Taiwan, and supply to apparel and textile industries in Taiwan.

3. Project Benefits: Advantages to Local Industry

Apparel and textile are focused industries in Taiwan and functional fabrics are key the differentiation beyond the cost. Sustainability including recycle, reduction and less contamination can be well demonstrated in this project.

- Compared with Neoprene, which is purely imported in Taiwan, from key raw materials to TPU itself are locally produced in Taiwan.
- Value adding with better insulation and durability in apparel and functional textile.
- Circular economy is high-lighted by Taiwan government and international brands such as Nike and adidas. This project not only reduces the industrial waste but also grants multiple life cycles for consumer goods.
- BASF provides best-fit physical foaming instead of chemical foaming and it can much reduce emission of exhaust and energy consumption. BASF supports the know-how transfer in process and start-up for the new investments in Taiwan.

Purpose of Sourcing Event

The primary focus of the Industrial Cooperation Program is to help local industries upgrade their capabilities through various means of cooperation as outlined in the Industrial Development Bureau's ICP Guidelines. The purpose of this sourcing event is to explain the ICP program, explain the project, and explain how to do business with Raytheon, and to promote industrial cooperation program activities. By conducting the sourcing event, Raytheon and its partners will gain a better understanding of local requirements, capabilities, and may also identify applicants to engage in potential ICP projects. The schedule for the "Wetsuit Elastic Foam with High Thermal Insulation Technology Transfer" ICP Project.