

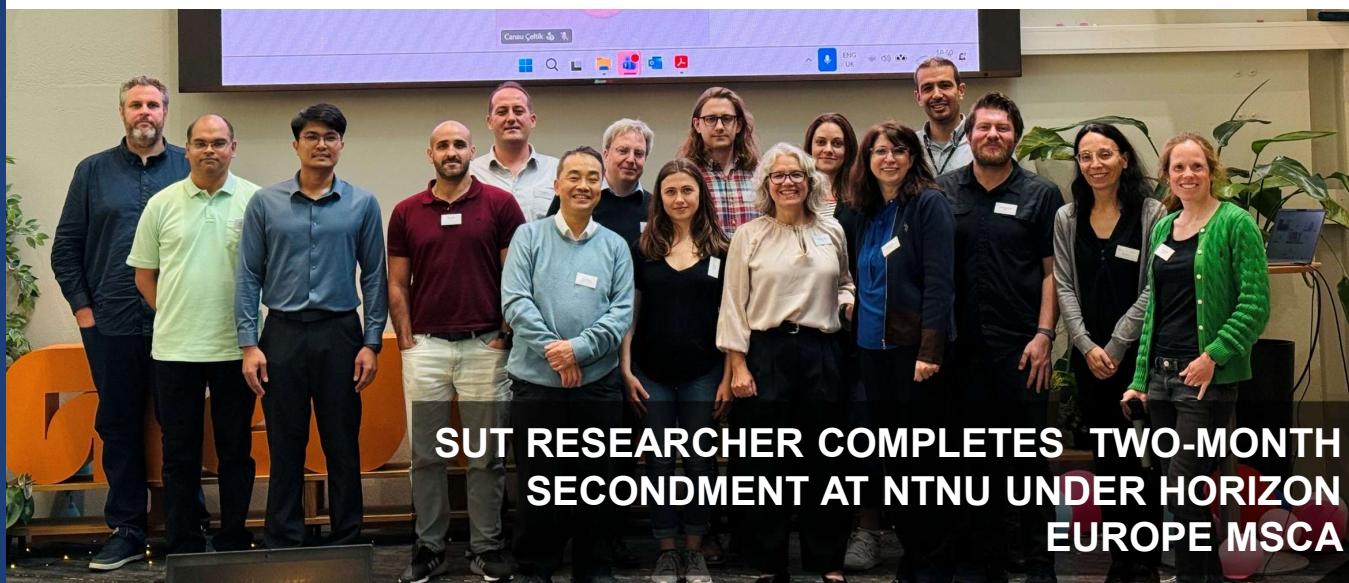
October 2026

CIA NEWSLETTER



SURANAREE
UNIVERSITY OF
TECHNOLOGY

CENTER FOR INTERNATIONAL AFFAIRS



SUT RESEARCHER COMPLETES TWO-MONTH SECONDMENT AT NTNU UNDER HORIZON EUROPE MSCA

TRONDHEIM, NORWAY – 14 October 2026 — Dr. Tanongsak Yingnakorn of the School of Metallurgical Engineering, Institute of Engineering, Suranaree University of Technology, completed a **two-month research secondment** at NTNU, Trondheim, under the Horizon Europe MSCA Staff Exchanges project SUSHEAS.

15 Aug – 14 Oct 2026

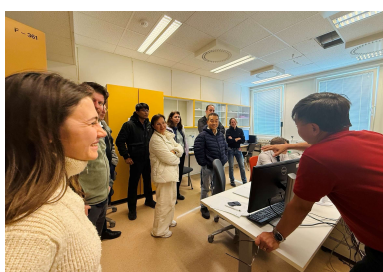
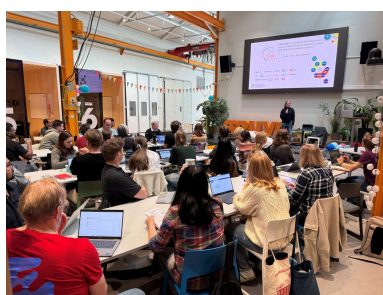
Host by
Norwegian University of Science
and Technology

ABOUT SUSHEAS

SUSHEAS — Sustainable Production of High Entropy Alloys from Secondary Metals — is funded by the European Union under Horizon Europe, Marie Skłodowska-Curie Actions Staff Exchanges 2024 (Grant Agreement No. 101236968).

SUSHEAS is a European consortium coordinated by Bursa Technical University, Türkiye, bringing together universities, research institutes and industry partners across Europe. **SUT participates as the associated partner in Thailand.**

The project develops routes for producing high entropy alloys from secondary metal resources, combining recycling technology, computational thermodynamics and advanced characterisation. **SUT participates as an associated partner**, contributing expertise in hydrometallurgical recovery of metals from industrial waste.



susheas.eu



cia.sut.ac.th



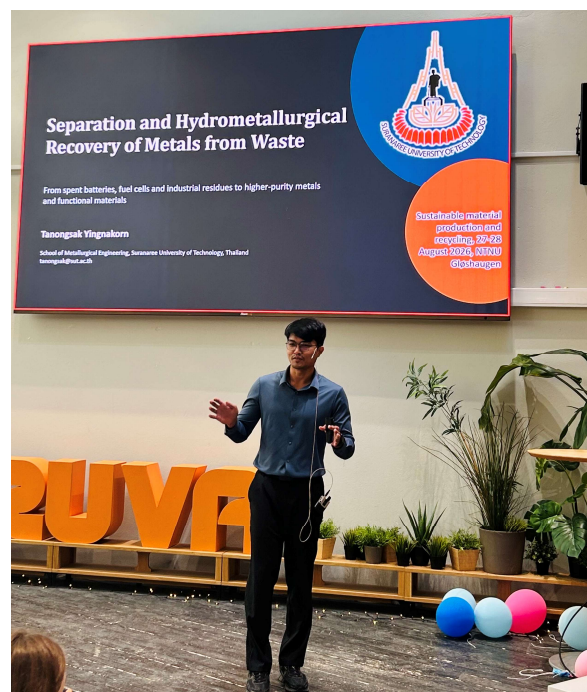
tanongsak@sut.ac.th

Activities during the secondment

- **Consortium integration:** introductory meetings and the SUSHEAS Welcome Meeting at NTNU, 17–24 August.
- **Computational thermodynamics training:** two-day FactSage workshop covering thermodynamic databases, phase diagrams, Scheil solidification modelling and process simulation, 25–26 August.
- **Oral presentation:** “Hydrometallurgical Recovery of Metals from Industrial Waste” at the SUSHEAS Workshop on Sustainable Material Production and Recycling, 27–28 August.
- **Laboratory demonstrations:** aluminothermic production of metallurgical-grade silicon from photovoltaic glass, and Cu–Ti alloy production, 31 August – 4 September.
- **Research facility visits:** pyrometallurgy laboratory, NTNU NanoLab cleanroom, Atom Probe Tomography, electrochemical and battery laboratories.
- **Progress evaluation:** SUSHEAS Progress Evaluation Meeting reviewing WP1 and WP2, with technical discussions on secondary metal processing and alloy design, 7–25 September.

BUILDING CAPABILITY IN SUSTAINABLE METALLURGY

Turning metal scrap into high-performance alloys



Outcomes and next steps

- Stronger working relationships with NTNU and with partners seconded there during the same period;
- New capability in computational thermodynamics applied to high entropy alloy design;
- Working knowledge of advanced characterisation routes for phase and grain-boundary analysis;
- Joint publications and further staff exchanges under preparation;
- Integration of the methods into graduate teaching and research supervision at SUT.

The secondment strengthens SUT's role in the SUSHEAS consortium and supports the development of sustainable routes for producing high entropy alloys from secondary metal resources.

Sustainable metallurgy • Metal recycling • High entropy alloys • Computational thermodynamics • Research mobility