



SUSHEAS 

NEWSLETTER

Issue 1 - August 2026

Inside this issue

This issue looks back at SUSHEAS's key milestones so far, from the project's Horizon Europe funding win and kick-off meeting to the recent consortium progress review ; alongside an overview of the project's goals and outreach efforts. We also look ahead to upcoming workshops and activities planned in the months to come.

About the Project

SUSHEAS is a Horizon Europe project focused on developing sustainable and innovative approaches for producing high entropy alloys using recycled and secondary metal resources.



We introduce you to the first SUSHEAS Newsletter!

Welcome to the very first issue of the SUSHEAS Newsletter! Over the coming months, this newsletter will keep you updated on the project's progress, achievements, and the people driving its mission forward: from consortium meetings and staff exchanges to research milestones and upcoming events.

SUSHEAS (Sustainable Production of High Entropy Alloys from Secondary Metals) is a Horizon Europe project funded under the Marie Skłodowska-Curie Actions (MSCA) Staff Exchanges Programme, coordinated by Bursa Technical University. Bringing together eleven partner institutions across six countries, the project aims to develop sustainable, circular pathways for producing high-value alloys from recycled metal resources.

In this first issue, you'll find an overview of the project's journey so far; including our Horizon Europe funding announcement, kick-off meeting, and first consortium progress review, along with a closer look at our partner network, coordination team, and the activities planned in the months ahead.

GENERAL INFORMATION

Consortium: 11 partner institutions
Countries: 6
Duration: 48 months
EC Contribution: € 736470,00
Project website:
<https://susheas.eu/>

PROJECT FACTS

Project Coordinator: Bursa Technical University (BTU), Türkiye
Project Coordinator: Prof. Dr. Deniz Uzunsoy
Grant Agreement No.: 101236968
Project Start: 1 January 2026
Project End: 31 December 2029
Funding Scheme: Horizon Europe MSCA



Project Consortium

Consortium Leader - BTU

Bursa Technical University (BTU) serves as the coordinator of the SUSHEAS project, providing scientific leadership and ensuring the effective implementation of all project activities. Working closely with the consortium partners, BTU oversees coordination, communication, and strategic planning while bringing together a dedicated team of researchers with complementary expertise in metallurgy and materials engineering. The following section introduces the members of the BTU coordination team.



Prof. Dr. Deniz Uzunsoy

Project Coordinator of SUSHEAS and Professor at Bursa Technical University. Her research focuses on sustainable metallurgy, advanced materials, and manufacturing technologies.



Prof. Dr. Hasan Kotan

Professor at Bursa Technical University with expertise in metallurgy and advanced materials. He contributes to research on alloy development and materials processing.



Dr. Burak Küçükelyas

Assistant Professor at Bursa Technical University specializing in metallurgy and materials engineering. His work focuses on metallic materials, characterization, and sustainable manufacturing.



Assoc. Prof. Dr. Cihan Kaboğlu

Associate Professor at Bursa Technical University specializing in materials engineering and manufacturing technologies. His research supports the development of innovative and sustainable metallic materials.



Res. Asst. Cansu Çeltik

Research Assistant at Bursa Technical University working in metallurgy and materials engineering. She supports the technical implementation and research activities of the SUSHEAS project.



Asst. Prof. Cantekin Kaykılarlı

Assistant Professor at Bursa Technical University, specializing in metallurgy and materials engineering. His research focuses on advanced metallic materials and materials processing.



Project Partners

SUSHEAS brings together ten partner institutions across Europe and beyond, uniting academic depth with industrial application. Together, the consortium spans six countries and combines materials science research with real-world industrial capability: bridging the gap between laboratory innovation and the sustainable, circular-economy production of High Entropy Alloys.



Brunel University London — United Kingdom, Academic

Brunel contributes expertise in alloy design, liquid metal processing, and additive manufacturing, supporting the development of new HEA compositions and processing routes.



Norwegian University of Science and Technology — Norway, Academic

NTNU leads research into metal recovery from metallurgical waste, drawing on its expertise in pyrometallurgy to extract usable secondary metals from industrial by-products.



University of Porto — Portugal, Academic

The University of Porto focuses on corrosion, tribocorrosion, and mechanical testing, evaluating how secondary-metal-derived alloys perform under real-world operating conditions.



Suranaree University of Technology — Thailand, Academic

Suranaree brings expertise in waste management and the upcycling of industrial waste, contributing to the project's circular-economy approach to raw material sourcing.



Bournemouth University — United Kingdom, Academic

Bournemouth University applies AI/ML and physics-inspired alloy design, including digital twin methods, to accelerate the discovery of viable HEA compositions.



International Iberian Nanotechnology Laboratory — Portugal, Academic

INL provides advanced nanoscale characterisation capabilities, including TEM and STEM analysis, to examine the microstructure of the alloys produced.



Saglam Metal Sanayi Ticaret A.S. — Turkiye, Industry

Saglam Metal supplies scrap recycling and metal processing capabilities, and supports the fabrication of prototype components from secondary-metal-derived alloys.



Qinetiq Ltd. — United Kingdom, Industry

Qinetiq contributes plasma processing and additive manufacturing capabilities, and leads prototype testing to validate performance in operational environments.



Quintus Technologies AB — Sweden, Industry

Quintus Technologies specialises in high-pressure densification, including hot isostatic pressing, to consolidate and strengthen the alloys developed within the project.



Guhring Limited — United Kingdom, Industry

Guhring, a manufacturer of precision cutting tools, also acts as a waste scrap supplier of cobalt and iron, feeding directly into the project's secondary-metal supply chain.

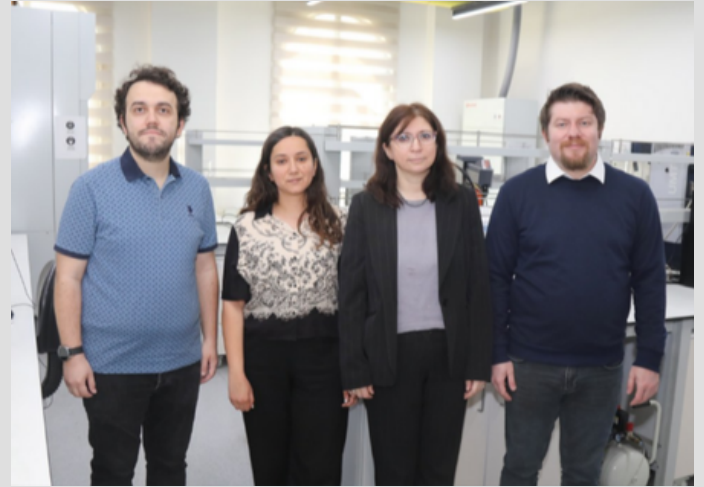


Activities & Outreach

BTU Becomes One of Three Turkish Universities Funded Under Horizon Europe MSCA Programme

Bursa Technical University (BTU), led by Prof. Dr. Deniz Uzunsoy, has been selected for funding under the Marie Skłodowska-Curie Actions (MSCA) Staff Exchanges Programme - one of only three Turkish universities to receive support in this highly competitive 2024 Horizon Europe call.

Rector Çağlar: 'This Success Demonstrates Our Research Strength Once Again'

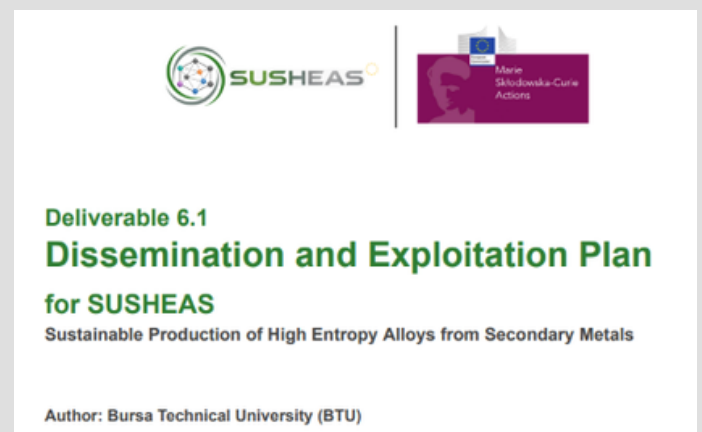


First Public Deliverable Available on CORDIS

SUSHEAS has published its first public deliverable, Plan for Dissemination & Exploitation including Communication Activities, on the CORDIS portal. The document presents the project's strategy for communication, dissemination, and exploitation of results and is now publicly accessible, by [this link](#).

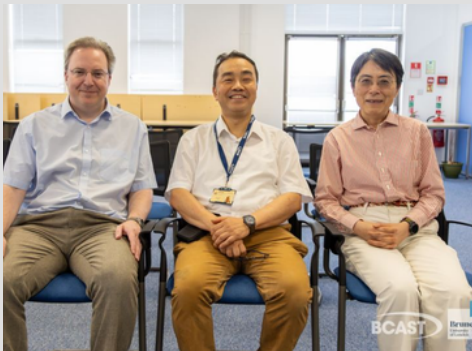
SUSHEAS Kick-Off and Consortium Progress Meetings Held

The SUSHEAS project officially launched with a kick-off meeting organized by Bursa Technical University (BTU), bringing together international partners online to introduce their institutions and align on the project's management structure, work packages, and mobility plans; Vice Rector Prof. Dr. Beyhan Bayhan opened the session, while Project Coordinator Prof. Dr. Deniz Uzunsoy presented the overall project framework. Building on this, the consortium reconvened online on 22 May 2026 for a progress review meeting chaired by Prof. Dr. Uzunsoy, where partners discussed technical developments, secondment planning, and dissemination activities.



Upcoming Activities

The first reporting period kicks off SUSHEAS's workshop series, with two technical workshops scheduled to bring consortium partners together around the project's early research themes in metal recovery and waste valorisation.



Looking ahead, SUSHEAS will continue building its events calendar with additional workshops, seminars, and training activities scheduled throughout the project, each designed to deepen technical exchange as the project progresses from recovery methods toward alloy design and manufacturing.



Workshop 1: Metal Extraction Technologies from Waste

On 27-28 August 2026, the Norwegian University of Science and Technology (NTNU) will host the first SUSHEAS project workshop, bringing together consortium partners for technical presentations and collaborative discussions on extraction technologies for recovering metals from industrial waste streams. The workshop marks the official start of the project's technical dissemination activities, laying the groundwork for the recovery methodologies that will underpin later work on sustainable alloy production.



Workshop 2: Metal Recovery and Sustainability

Later in the year, Suranaree University of Technology will host a dedicated workshop focused on metal recovery and sustainability, building on the project's early progress in waste stream management. The session will bring partners together to exchange knowledge on recycling approaches and sustainable recovery practices, reinforcing the circular-economy principles that guide SUSHEAS's work on producing high entropy alloys from secondary metal sources.



Secondments

LATEST SECONDMENT

The latest SUSHEAS secondment was successfully carried out between Bursa Technical University (BTU) and Suranaree University of Technology (SUT), Thailand, from 29 June to 29 July 2026. The visit focused on developing green recycling strategies and material characterization in metal refinement processes, strengthening scientific collaboration and knowledge exchange between the two partner institutions.



Sending Institution: Bursa Technical University (BTU)
Host Institution: Suranaree University of Technology (SUT), Thailand
Dates: 29 June - 29 July 2026
Research Focus: Developing green recycling strategies and characterisation in metal refinement process steps.



UPCOMING SECONDMENT

The next planned secondment will take place at the Norwegian University of Science and Technology (NTNU). During the two-month visit, researchers will collaborate on sustainable high-entropy alloy research, strengthen scientific cooperation, and promote knowledge exchange between the two institutions as part of the SUSHEAS mobility programme.

Sending Institution: Bursa Technical University, Suranaree University of Technology, Bournemouth University, Brunel University, Saglam Metal, University of Porto
Host Institution: Norwegian University of Science and Technology
Dates: 18 August - 17 September 2026
Research Focus: Sustainable materials engineering, knowledge exchange, and collaborative research on high-entropy alloys within the SUSHEAS project.

