



This project is co-funded by the European Union  
and the Republic of Türkiye



# MSCA SE 2026 Call



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**ORGANIZATION: Sumy National Agrarian University (SNAU) & T.G. Shevchenko National University "Chernihiv Colehium" (NUCC) - Joint Ukrainian Consortium**

**WORKSHOP NAME: MSCA Staff Exchanges 2026 Brokerage Event**

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## MSCA SE 2026 Call



### Description of the Organisation



### Ukrainian Agri-Food Resilience & Innovation Hub (SNAU + NUCC)

We represent a strategic alliance of two leading universities in North-East Ukraine, operating effectively under crisis conditions.

**SNAU (Sumy)** is a leading regional research hub specializing in sustainable agriculture and food security. The university holds a robust portfolio of 17 Erasmus+ projects with a total EU contribution of approximately €6M, having served as a Coordinator in 11 of these initiatives. Despite operating just **15 km from the frontline**, SNAU maintains world-class scientific standards through its GIZ Energy-Innovation Hub and specialized Food Tech laboratories.

**NUCC (Chernihiv)** serves as a center for analytical chemistry and digital transformation, with a proven track record of 6 Jean Monnet projects, including Excellence Centers and Chairs. The university focuses on integrating **NATO nutrition standards**, ensuring analytical validation of food products, and developing "digital twins" for educational and industrial applications.



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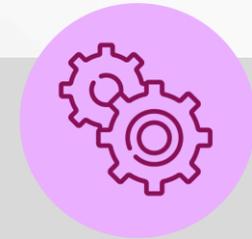
### Your Teams' Expertise

Food Technology &  
Production (SNAU  
Lead)

Block 2: Analytics  
& Safety Validation  
(NUCC Lead)



SNAU leads the technological research, focusing on the integration of **alternative protein sources** - such as plant-based, algae and invertebrates - into traditional food matrices. The team specializes in modernizing food systems for conflict-affected regions and adapting organic farming standards to meet European Green Deal compliance.



NUCC provides expertise in molecular chemistry and safety validation. Their work includes the pH-modification of plant protein isolates (e.g., chickpea, pumpkin) for enhanced functionality and **Resilience Engineering**. They are also responsible for developing NATO-standard military nutrition protocols and digital tools for process simulation.



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### Your Research Fields

**Food Science & Technology**  
Analytical Chemistry & Toxicology



Crisis **Resilience** & Food Security

**Circular Bio-economy**



**Military Nutrition** (NATO Standards)



## MSCA SE 2026 Call



### Your On-going Projects

Our consortium is actively involved in high-impact initiatives such as **AFISHE** and **EUSPACED**, which address food security and safe educational spaces in conflict regions. NUCC implements Jean Monnet Actions to standardize safety and digital transformation, while SNAU leads **Organic-EU** and **AGROECOEDU** to integrate Green Deal standards into national systems. Additionally, we are conducting National R&D projects focused on NATO-aligned functional nutrition for extreme conditions.



## MSCA SE 2026 Call

### Project Idea

**Project Idea: RESFOOD: RESilient FOOD Systems via Alternative Proteins & Advanced Safety Protocols**

**Deadline Dates: 16 April 2026**

- ❑ **Objectives:** The primary objective is to develop stress-resilient food products using novel proteins (algae, plant isolates) tailored for disrupted supply chains. We aim to validate these products using EU-standard analytical protocols to ensure safety even in conflict zones, while facilitating knowledge exchange on crisis management and advanced extrusion technologies.
- ❑ **Expected Results:** The project will deliver prototypes of high-protein, long-shelf-life foods suitable for humanitarian and military use. We will also establish a methodology for "Safety Validation under Stress" with dual-use potential and ensure the harmonization of Ukrainian novel food regulations with the EU Acquis.



## MSCA SE 2026 Call



### Project Idea

#### Project Idea: ECOTWIN: Digital Twins for Circular Bio-economy & Agricultural Waste Valorization

**Deadline Dates: 16 April 2026**

- ❑ **Objectives:** This project focuses on the "Green Transition" by converting agricultural by-products (including **oilseeds, legumes, and hemp processing waste**) into high-value functional ingredients. Our consortium aims to develop "Digital Twins" of these bioprocessing lines to optimize efficiency and ensure zero-waste production. The goal is to transfer knowledge on **sustainable upcycling technologies** (SNAU expertise) and **digital process modeling** (NUCC expertise) to align Ukrainian producers with the EU Green Deal.
- ❑ **Expected Results:** We expect to create scalable protocols for extracting bioactive compounds from agricultural waste and develop digital simulation tools for food safety monitoring. The project will also result in a roadmap for harmonizing Ukrainian agro-waste management with EU circular economy standards, opening new markets for upcycled ingredients.



## MSCA SE 2026 Call



Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
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01	Sumy National Agrarian University (SNAU)	Academic	Ukraine	<b>Coordinator &amp; Tech Lead.</b> The university manages R&D in protein extraction, product formulation (algae/invertebrates), and ensures alignment with Green Deal sustainability goals.
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02	T.G. Shevchenko National University Chernihiv Collegium (NUCC)	Academic	Ukraine	<b>Safety &amp; Analytics Lead.</b> Responsible for chemical validation, toxicological analysis, compliance with NATO nutrition standards, and digital dissemination.
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**Strategic Partners** (Note: These partners are currently in the confirmation stage):

03	University of Florence	Academic	Italy	Joint R&D on sustainable food systems; knowledge transfer on EU standards.
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04	Meat Technology Centre of Galicia	Non-academic	Spain	Industrial validation; hosting secondments for Ukrainian staff to master advanced processing tech.
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05	Palestine Polytechnic University	Academic	Palestine	Comparative research on food resilience in challenging environments; widening participation.
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**Consortium – required partners**

No	Expertise	Type	Country	Role in the project
01	AI, Machine Learning & Digital Twins for Food Processing	Deep-Tech SME / Research Institute.	EU (Any)	Develop predictive safety models; optimize biomass processing parameters using AI; create Digital Twins of production lines.
02	Industrial High-Moisture Extrusion (HME) & Scaling.	Industry / SME (with pilot facilities).	EU (Any).	Scale up protein prototypes from TRL 4 to TRL 7; pilot production of texturized alternative proteins
03	Consumer Science, Sensory Analysis & Behavioral Studies.	University / Market Research Agency.	EU (Any).	Validate market acceptance; conduct sensory testing; study strategies to overcome "consumer neophobia" for novel foods
04	Advanced Molecular Toxicology & Omics.	Research Institute / Specialized Lab.	EU (Any).	Deep molecular characterization of novel proteins; allergenicity risk assessment; advanced safety validation



## **MSCA SE 2026 Call**

PRESENTER CONTACT

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COUNTRY: Ukraine