

# A Turkish SME is seeking project partners from universities, research institutions, or industrial organizations to collaborate on the development of NiCrCo-based alloys for IRASME call

### Summary

Profile type	Company's country	POD reference
Research & Development Request	Türkiye	RDRTR20250321004
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	• Austria
		• Brazil
		• Germany
		• Czechia
		• Belgium
		Luxembourg
Contact Person	Term of validity	Last update
Enrico FRANZIN	21 Mar 2025	21 Mar 2025
	21 Mar 2026	
General Information		

#### Short summary

The project aims to focus on the development of NiCrCo-based alloys, with an emphasis on alloy design, as well as involvement in production and comprehensive characterization processes.

Potential partners with expertise in materials development, casting or powder production, and characterization techniques (e.g., chemical analysis, microstructural evaluation, mechanical and corrosion testing) are invited to collaborate within the framework of transnational R&D cooperation.

#### Full description

The IraSME call supports project applications focused on basic research, research and development, and the creation of technologically new or improved products.

A Turkish SME is designing a project aimed at the development of a NiCrCo-based alloy and the laboratory-scale investigation of its properties. These alloys have a wide range of potential applications. The project specifically







\*\*\*\* \* \* \*\*\*

targets the development of a high entropy alloy as an alternative to conventional nickel-based superalloys, utilizing computational materials engineering technologies in a numerical modeling environment.

The SME is seeking partners from IraSME participating countries with the capability to carry out casting or laboratoryscale powder production of the alloy.

Advantages and innovations

Alloy development activities will be carried out using computational materials engineering technologies.

-A high entropy alloy will be developed as an alternative to NiCrCo based superalloys.

Technical specification or expertise sought

Infrastructure and knowledge on production (atomization in casting or laboratory performance) Infrastructure and knowledge on characterization (microstructure and mechanical properties)

Stage of development

Sustainable Development goals

**Under development** 

• Goal 9: Industry, Innovation and Infrastructure

**IPR Status** 

No IPR applied

**IPR** Notes

# Partner Sought

Expected role of the partner

The SME is seeking partners from IraSME participating countries with the capability to carry out casting or laboratoryscale powder production of the alloy.

Type of partnership

Type and size of the partner







Research and development cooperation agreement

- SME 50 249
- SME <=10
- SME 11-49
- R&D Institution
- University

## Call Details

Framework program

Innovation in SMEs

Call title and identifier

IRASME

Submission and evaluation scheme

Anticipated project budget

Deadline for Eol

26 Mar 2025

Project duration in weeks

Project title and acronym

Coordinator required

Deadline of the call

26 Mar 2025

Web link to the call

Profile RDRTR20250321004

Page 3 of 4 Exported: 25 March 2025







## Dissemination

Technology keywords

02007010 - Metals and Alloys

Targeted countries

- Austria
- Brazil
- Germany
- Czechia
- Belgium
- Luxembourg

Market keywords

• 08005 - Other Industrial Products (not elsewhere classified)

Sector groups involved

• Energy-Intensive Industries



