



Project co-funded by EUROPEAN UNION through the European Regional Development Fund
Sectorial Operational Programme "Increase of Economic Competitiveness"

"Investing for your future"

PRIORITY AXIS 2 - Research, Technological Development and Innovation for Competitiveness

Operation 2.2.1: - Development of the existing R&D infrastructure and the creation of new infrastructures (laboratories, research centres)

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Project value: 15.941.661 RON

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Romanian Government contribution value: 1.916.200 RON

Project beneficiary: "AUREL VLAICU" UNIVERSITY - ARAD, ROMANIA; TECHNICAL AND NATURAL SCIENCES RESEARCH-DEVELOPMENT-INNOVATION INSTITUTE of UAV

Research Center in Technical and Natural Sciences CESTN

<http://cestn.uav.ro/>

The main Objective of the project is **development of the existing R&D infrastructure of a new Research Center in Technical and Natural Sciences at "Aurel Vlaicu" University Arad for approaching more priority domains (Innovative Materials, Products and Processes, Health, Environment, Agriculture, Food Safety and Security).**

The specific objectives are focused on development of R&D infrastructure, modernization of the existing laboratories, by the creation of new infrastructures, acquisition of new instruments and equipments, and refurbishment of research premises.

The main equipments envisaged are:

- Scanning Electron Microscope with FIB and EDX
- Transmission Electron Microscope with STEM
- Ultra-cryo-microtome
- Upgrading Atomic Force Microscope with new controller
- Upgrading confocal RAMAN with 2 more lasers
- Upgrading QTOF with ionic mobility system (new in Europe)
- DSC
- UHPLC with DAD, RID, fluorescence and QQQ detectors
- GCGCMS with TD