

**HFRI 29/07/2025**  
**Ref. No. 110682**



HELLENIC REPUBLIC  
MINISTRY OF DEVELOPMENT  
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION  
**HELLENIC FOUNDATION FOR RESEARCH AND INNOVATION**

Address: 185 Syngrou Ave. & 2 Sardeon St., 17121, Nea Smyrni  
Website: [www.elidek.gr](http://www.elidek.gr)  
E-mail: [grants.fm3@elidek.gr](mailto:grants.fm3@elidek.gr)  
Tel: 210 6412410, 210 6412420

## **FUNDING LISTS OF THE PROPOSALS**

**Submitted in the Scientific Areas**

**Physical Sciences (SA.1)**  
**Engineering Sciences & Technology (SA.2)**  
**Category II**

**“3rd Call and Management and Implementation Guide for H.F.R.I. Research Projects to Support Faculty Members and Researchers”**

Subsequent to the issuance of the Ref. No. 110410/23.07.2025 (IUN: 6ΓXI46M77Γ-1Ω5) Directors' Decision on "The publication of the Funding Lists of the proposals in the **Scientific Areas "Physical Sciences" (SA. 1) and "Engineering Sciences & Technology" (SA. 2) Category II** submitted under the "3rd Call and Management and Implementation Guide for H.F.R.I. Research Projects to Support Faculty Members and Researchers" (Ref. No. 70402/28.07.2023, as in force), below is the Funding List per Scientific Area and Category.

<b>FUNDING LIST</b>					
<b>Physical Sciences (SA. 1)</b>					
<b>CATEGORY II</b>					
<b>A/N</b>	<b>Proposal No.</b>	<b>Title</b>	<b>Principal Investigator Name</b>	<b>Host Institution</b>	<b>Approved budget (€)</b>
1.	26546	ttZ and ttHiggs with bb and cc at the LHC	SPHICAS PARASKEVAS	INSTITUTE OF ACCELERATING SYSTEMS AND APPLICATIONS (IASA)-NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS AND NATIONAL TECHNICAL UNIVERSITY OF ATHENS	284.971,00 €
2.	25142	Inverse Macromolecular Architectures of Linear and Star Diblock Copolymers for Nanotechnology Applications	AVGEROPOULOS APOSTOLOS	UNIVERSITY OF IOANNINA	285.000,00 €
3.	26254	Gravitational Wave Discoveries Using Artificial Intelligence	STERGIOULAS NIKOLAOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	284.927,00 €
4.	25251	Development of mannosylated nanoparticles encapsulated with myelin peptides: A novel approach for multiple sclerosis treatment	TSELIOS THEODORE	UNIVERSITY OF PATRAS	284.995,00 €
5.	24861	Ion Transport in Nanochannels: Design of new processes for efficient ion transport	FLOUDAS GEORGE	UNIVERSITY OF IOANNINA	285,000,00 €

6.	23357	Shape Coexistence in Atomic Nuclei	BONATSOS DIONYSIOS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	285.000,00 €
7.	23770	Holography and Transport in extreme phases of matter	KIRITSIS ELIAS	INSTITUTE OF THEORETICAL AND COMPUTATIONAL PHYSICS (ITCP)- DEPARTMENT OF PHYSICS- UNIVERSITY OF CRETE	284.960,00 €
8.	26296	Lateral heterostructures of two-dimensional transition metal dichalcogenides: synthesis and thermomechanical properties	PAPAGELIS KONSTANTINOS	FOUNDATION FOR RESEARCH AND TECHNOLOGY- HELLAS	284.958,00 €
9.	24929	Chiral Metallodrugs As Anticancer Agents	RAPTOPOULOU CATHERINE	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	285.000,00 €
10.	25826	Laser-plasma high intensity ultrasounds generation and control for cancer research applications	TATARAKIS MICHALIS	HELLENIC MEDITERRANEAN UNIVERSITY	285.000,00 €
11.	26623	Altermagnetism: A new magnetic order for spintronics	DIMOULAS ATHANASIOS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	284.132,00 €
12.	25442	Quantum computation platform with analog polaritonic qubits	PETROSYAN DAVID	FOUNDATION FOR RESEARCH AND TECHNOLOGY- HELLAS	284.992,00 €

**FUNDING LIST**  
**Engineering Sciences & Technology (SA. 2)**  
**CATEGORY II**

A/N	Proposal No.	Title	Principal Investigator Name	Host Institution	Approved budget (€)
1.	23407	ImProving Well-being of Citizens and Future-proofing Jobs with Soft Wearable Robotic ExoSuits	POLYGERINOS PANAGIOTIS	HELLENIC MEDITERRANEAN UNIVERSITY	282.000,00 €
2.	26465	Compassionate, Adaptive, Robust and Explainable Robots	GASTERATOS ANTONIOS	DEMOCRITUS UNIVERSITY OF THRACE	281.040,00 €
3.	24996	Laser bioprinting tool for cartilage regeneration	ZERGIOTI IOANNA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	281.971,00 €
4.	23330	Safe Bilateral Human Teleoperation of Robotic Manipulators with Prescribed Accuracy Variable Autonomy and Haptic Feedback in the Presence of Time Delays	ROVITHAKIS GEORGIOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	281.765,00 €
5.	26813	Green and scalable laser-assisted production of Si/graphene-based electrodes for high energy density Li-ion batteries	YANNOPOULOS SPYROS	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS	281.848,00 €
6.	25953	Optics-Informed Deep Learning and Light-based Neural Network Engines for Energy-Efficient Artificial Intelligence	PLEROS NIKOLAOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	281.571,00 €
7.	25267	Lightweight AI-based HW Health Monitors for Dependable Energy-Efficient IoT	KARAKONSTANTIS GEORGIOS	UNIVERSITY OF THESSALY	281.972,00 €
8.	26007	Development of specialized bacterial cell factories for high-level production of biological drugs through combinatorial CRISPR-mediated host engineering	SKRETAS GEORGIOS	BIOMEDICAL SCIENCES RESEARCH CENTRE ALEXANDER FLEMING	274.010,00 €

9.	23567	Development of an AI-based diagnostic tool for Personalized patient's risk stratification in CARDiovascular Disease.	EFSTATHOPOULOS EFSTATHIOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	261.795,00 €
10.	26236	Nonlinear shunt circuit piezoelectric vibration absorbers for structures and acoustics	STAVROULAKIS GEORGIOS	TECHNICAL UNIVERSITY OF CRETE	282.000,00 €
11.	26198	Novel Retrofit Strategies for Multi-Story Structures and Industrial Facilities	SAPOUNTZAKIS EVANGELOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	281.926,00 €
12.	24958	3D printing of innovative membranes; Fabrication, characterization and application in enhanced wastewater treatment processes	ZOUMPOULIS ANASTASIOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	281.998,00 €
13.	23468	Space Robotic Systems for Autonomous Assembly in Orbit	PAPADOPOULOS EVANGELOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	282.000,00 €
14.	26480	Deep Learning for Thermal Recovery and Management Optimization	SEFERLIS PANAGIOTIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	258.016,00 €
15.	26165	Engineering Measures for historic Bridges Resilience Against Climate change and Earthquakes	SEXTOS ANASTASIOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	281.765,00 €
16.	26272	Process intensification of Carbon dioxide and methane valorization by microwave heating	KATSAROS FOTIOS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	280.857,00 €
17.	25079	Novel Pd-based catalysts for the hydrogenation of CO2 to value-added products	KONNDARIDES DIMITRIS	UNIVERSITY OF PATRAS	281.962,00 €
18.	26153	Integrated planning of mobility hubs for optimally assembling the PUZZLE pieces of an urban multimodal transportation system.	KEPAPTSOGLOU KONSTANTINOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	281.248,00 €
19.	25726	Neuromorphic Reconfigurable Intelligent Surfaces for Ultra-Energy Efficient, and Secure Low-Latency Communications	TSIFTSIS THEODOROS	UNIVERSITY OF THESSALY	281.957,00 €

20.	23457	Predicting Product Distribution from Depolymerization of Plastic Waste	MPOURMPAKIS IOANNIS	UNIVERSITY OF PATRAS	281.972,00 €
-----	-------	--	---------------------	----------------------	--------------

**The Director of the Hellenic Foundation for Research and Innovation**

**Dr Aikaterini Kouravelou**