



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

Address: 185 Syggrou Ave. & 2 Sardeon St., PC 17121, Nea Smyrni, Athens

Website: [www.elidek.gr](http://www.elidek.gr)

Email: [grants.pd4@elidek.gr](mailto:grants.pd4@elidek.gr)

Telephone: 210 6412410, 210 6412420

**H.F.R.I. 01/12/2025**  
**Protocol Number: 116614**

## **AMENDMENT OF FUNDING LISTS OF THE PROPOSALS**

**Submitted in the Scientific Areas**

**Physical Sciences (SA.1)**  
**Engineering Sciences and Technology (SA.2)**  
**Mathematics and Information Sciences (SA.5)**

**4th Call for H.F.R.I. Research Project to support Postdoctoral Researchers**

Subsequent to the issuance of the Ref. No. 116603/01.12.2025 (IUN: PΨΜΣ46Μ77Γ-19Υ) Directors' Decision on "Amendment of the publication of the Funding Lists No. 115085/04.11.2025 of the Director of the H.F.R.I. (IUN: ΠΑΗ646Μ77Γ-ΧΟΙ) of the proposals submitted in the Scientific Areas "Physical Sciences" (SA. 1), "Engineering Sciences and Technology" (SA. 2) and "Mathematics and Information Sciences" (SA. 5) and under the "4th Call for H.F.R.I. Research Projects to Support Postdoctoral Researchers" (Ref. No. 84553/11.04.20224, as in force), below is the Funding List per Scientific Area and Category.

The funding lists have been amended as follows:

- i. Proposal No 28995 has been added to the funding lists of the Scientific Area "Physical Sciences", instead of proposal No 29178 that has been withdrawn.
- ii. Proposal No 28708 has been added to the funding lists of the Scientific Area "Engineering Sciences and Technology", instead of proposal No 28926 that has been withdrawn.
- iii. Proposal No 28706 has been added to the funding lists of the Scientific Area "Mathematics and Information Sciences", instead of proposal No 29097 that has been withdrawn.
- iv. The change of the HI for proposal No 28236 in the Scientific area 1. "Physical Sciences" and for proposals No 28695 and No 29166 in the Scientific area 2. "Engineering Sciences and Technology"

<b>Funding List</b>					
<b>Physical Sciences (SA.1)</b>					
A/N	Proposal No.	Title	Principal Investigator - Postdoctoral Researcher Name	Host Institution	Approved budget (€)
1.	28418	Probing the properties of the Galaxy with Gravitational Radiation	KARNESIS NIKOLAOS	NATIONAL OBSERVATORY OF ATHENS	91.333,00 €
2.	28223	Carbon dioxide splitting by plasma discharges in Earth and Martian atmosphere	KOURTZANIDIS KONSTANTINOS	CENTRE FOR RESEARCH & TECHNOLOGY HELLAS (CERTH)	93.534,38 €
3.	28333	Mechanical response of 2D-heterostructures under large deformations: development of multi-functional ultra-stretchable flexible devices	ANDROULIDAKIS CHARALAMPOS	UNIVERSITY OF PATRAS	84.645,00 €

4.	28322	X-ray Spectroscopy at an X-ray Free Electron Laser to Unveil the Water-Splitting Mechanism in Photosynthesis	CHRYSINA MARIA	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	94.990,00 €
5.	28474	Development of novel structurally characterized nano-encapsulated flavonoid metal complexes as candidates for the multi-factorial treatment of lung cancer	HALEVAS ELEFTERIOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	94.999,90 €
6.	28197	Metastructures for Dynamic Optical Wavefront Manipulation	MATTHAIKAKIS NIKOLAOS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	95.000,00 €
7.	28624	Two-dimensional chemistry towards the development of novel porous -Xanes and -Xenes structures	POTSI GEORGIA	UNIVERSITY OF CRETE	84.770,40 €
8.	28236	Towards a holographic description of de Sitter spacetime	RONDEAU FRANCOIS	INSTITUTE OF THEORETICAL AND COMPUTATIONAL PHYSICS - UNIVERSITY OF CRETE	95.000,00 €
9.	29158	The integration of Magnetic Nanocomposites and Regenetch Bioreactor as a multifaceted in vitro approach in Alzheimer's Disease research	GIANNOUSI KLEONIKI	ARISTOTLE UNIVERSITY OF THESSALONIKI	94.593,00 €
10.	28995	Binary Interactions as the Gateway to understanding the Origin of the Planetary Nebula Luminosity Function cut-off	SOUROPANIS DIMITRIOS	FOUNDATION FOR RESEARCH AND TECHNOLOGY- HELLAS (FORTH)	66.044,00 €

<b>Funding List</b> <b>Engineering Sciences and Technology (SA.2)</b>					
A/N	Proposal No.	Title	Principal Investigator - Postdoctoral Researcher Name	Host Institution	Approved budget (€)
1.	29166	Coupling the atmospheric interactions with biological effects via a new chemical mechanism model targeting the formation of reactive oxygen species	DOVROU ELENI	UNIVERSITY OF CRETE	99.902,00 €
2.	28522	Machine Learning-Based Equalization, Opto-Electronic Devices Emulation and Hardware Implementation for Optical Communication Applications	DELIGIANNIDIS STAVROS	UNIVERSITY OF WEST ATTICA	79.772,00 €
3.	28996	Towards secure and resilient cyber-physical drinking water, stormwater and wastewater urban networks	NIKOLOPOULOS DIONYSIOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	90.168,88 €
4.	28527	Surrogate-based Aerostructural Conceptual Design of UAV Aircraft Structures	KILIMTZIDIS SPYRIDON	UNIVERSITY OF PATRAS	78.669,56 €
5.	28695	Additive manufactured Smart nano-enabled thermoplastic Triply Periodic Minimal Surface cores for Energy-autonomous Sandwich composite panels	KARALIS GEORGIOS	UNIVERSITY OF IOANNINA	99.550,00 €
6.	28615	Taming System Uncertainties via Efficient and Resilient Resource Orchestration in 3D Networks	DIAMANTI MARIA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	79.200,00 €

7.	28135	Development of a social production system integrating smart and agile manufacturing for customer-specific goods	KLADOVASILAKIS NIKOLAOS	INTERNATIONAL HELLENIC UNIVERSITY	99.990,00 €
8.	28411	Upgrading of Bio-oil over Resource-Efficient Sustainable Catalysts towards a CO2-neutral Economy	SIAKAVELAS GEORGIOS	UNIVERSITY OF WESTERN MACEDONIA	99.990,55 €
9.	28238	Sustainable Transport Environments that Achieve Modal Shift	KAREKLA XENIA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	99.990,44 €
10.	28720	Bio-based Succinic Acid - Furanic acid copolyesters via Enzymatic polymerization	GKOUNTELA CHRISTINA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	100.000,00 €
11.	28997	Periodontal cell Sheets for Implant Long-term Establishment in oral rehabilitation	TSAMESIDIS IOANNIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	79.073,50 €
12.	28903	Implementing Additive Manufacturing to Enhance Reuse of Steel: Optimization of novel Repair Processes for Structural Components	GKATZOIANNIS STEFANOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	99.990,00 €
13.	28918	Overcome the Long-Standing Problems of UAVs via the Efficient Utilization of Swarming Technologies	KAPOUTSIS ATHANASIOS	ATHENA- RESEARCH CENTER FOR INNOVATION AND INFORMATION TECHNOLOGIES	95.282,00 €
14.	28256	Biorecovery of Neodymium and other Rare Earth Elements from Greek bauxite residue	KISKIRA KYRIAKI	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	94.600,00 €
15.	28780	Encapsulation of micro-or macro-algae products and their formulation as food supplements for metabolic syndrome prevention	KAVETSOU ELENI	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	95.124,00 €

Funding List					
Mathematics and Information Sciences (SA.5)					
A/N	Proposal No.	Title	Principal Investigator - Postdoctoral Researcher Name	Host Institution	Approved budget (€)
1.	28415	Neural Network Architects: Towards general-purpose symmetry-driven foundation models of Neural Networks	BOURITSAS GEORGIOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	93.600,00 €
2.	28553	Learning to Learn in Interactive Constraint Acquisition	TSOUROS DIMOSTHENIS	UNIVERSITY OF WESTERN MACEDONIA	81.300,00 €
3.	28948	Problems in Convex Geometric Analysis and Stochastic Geometry	LIAKOPOULOS DIMITRIS - MARIOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	58.300,00 €
4.	28368	Black hole formation and the Weak Cosmic Censorship Conjecture for the Spherically Symmetric Einstein-Yang-Mills system	ATHANASIOU NIKOLAOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	58.300,00 €
5.	28988	Design and Analysis of Efficient Algorithms for Graph Connectivity Problems	KOSINAS EVANGELOS	UNIVERSITY OF IOANNINA	71.000,00 €
6.	28952	Deformation Theory of Curves with Automorphisms	TEREZAKIS ALEXIOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	58.300,00 €
7.	28706	Distorted Information Learning with Empirical Minimization and Adversaries	ATHANASAKOS EMMANOUIL - MARIOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	89.200,00 €

An electronic letter of approval will be sent to the Principal Investigators of the proposals to be funded, inviting them to submit to the [H.F.R.I. Web Portal](#) the required supporting documents for issuing the

Funding Award Decision in accordance with the [Call for Action](#) (Decision No. 86608/20.05.2024 of the Director of the H.F.R.I., 1st Amendment, IUN: ΠΣΩΝ46Μ77Γ-Ω5Η).

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

**Dr Aikaterini Kouravelou**