



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

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H.F.R.I. 04/11/2025
Protocol Number: 115088

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

The evaluation process of the Proposals submitted in the framework of the 4th Call for H.F.R.I. Research Project to support Postdoctoral Researchers (Decision No. 84553/11.04.2024) has been concluded.

Subsequent to the issuance of Decision No. 113792/10.10.2025 of the 210th (extraordinary) Meeting of the S.C. of the H.F.R.I. as well as the Decisions No. 114976/03.11.2025 and No. 114977/03.11.2025 of the 211th Meeting of the S.C. of the H.F.R.I. on the approval of the publication of the evaluation results of the final ranking lists of the evaluation of the Proposals submitted under the Call mentioned above and of the Funding Award Decision No. 115085/04.11.2025 of the Director of the H.F.R.I. (IUN: PAH646M77Γ-XOI), below is the **List of the Proposals suggested for funding** based on their ranking in the Final Ranking Table and the available budget.

Funding List Physical Sciences (SA.1)					
A/N	Proposal No.	Title	Principal Investigator - Postdoctoral Researcher Name	Host Institution	Approved budget (€)
1.	29178	Inferring the dense nuclear matter equation of state with neutron star tides	PNIGOURAS PANTELIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	81.696,00 €
2.	28418	Probing the properties of the Galaxy with Gravitational Radiation	KARNESIS NIKOLAOS	NATIONAL OBSERVATORY OF ATHENS	91.333,00 €
3.	28223	Carbon dioxide splitting by plasma discharges in Earth and Martian atmosphere	KOURTZANIDIS KONSTANTINOS	CENTRE FOR RESEARCH & TECHNOLOGY HELLAS (CERTH)	93.534,38 €
4.	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 €

5.	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 €
6.	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 €
7.	28197	Metastructures for Dynamic Optical Wavefront Manipulation	MATTHAIAKAKIS NIKOLAOS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	95.000,00 €
8.	28624	Two-dimensional chemistry towards the development of novel porous -Xanes and -Xenes structures	POTSI GEORGIA	UNIVERSITY OF CRETE	84.770,40 €
9.	28236	Towards a holographic description of de Sitter spacetime	RONDEAU FRANCOIS	UNIVERSITY OF CRETE	95.000,00 €
10.	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 €

Funding List

Engineering Sciences and Technology (SA.2)

A/N	Proposal No.	Title	Principal Investigator -	Host Institution	Approved budget (€)
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			Postdoctoral Researcher Name		
1.	29166	Coupling the atmospheric interactions with biological effects via a new chemical mechanism model targeting the formation of reactive oxygen species	DOVROU ELENI	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	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	HELLENIC MEDITERRANEAN UNIVERSITY	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.	28926	Liquefaction-proof design of houses: key insights and tools	NTRITSOS NIKOLAOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	99.999,90 €
9.	28411	Upgrading of Bio-oil over Resource-Efficient Sustainable Catalysts towards a CO ₂ -neutral Economy	SIKAVELAS GEORGIOS	UNIVERSITY OF WESTERN MACEDONIA	99.990,55 €
10.	28238	Sustainable Transport Environments that Achieve Modal Shift	KAREKLA XENIA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	99.990,44 €
11.	28720	Bio-based Succinic Acid - Furanic acid copolyesters via Enzymatic polymerization	GKOUNTELA CHRISTINA	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	100.000,00 €
12.	28997	Periodontal cell Sheets for Implant Long-term Establishment in oral rehabilitation	TSAMESIDIS IOANNIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	79.073,50 €
13.	28903	Implementing Additive Manufacturing to Enhance Reuse of Steel: Optimization of novel Repair Processes for Structural Components	GKATZOGIANNIS STEFANOS	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	99.990,00 €
14.	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 €
15.	28256	Biorecovery of Neodymium and other Rare Earth Elements from Greek bauxite residue	KISKIRA KYRIAKI	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	94.600,00€

Funding List

Mathematics and Information Sciences (SA.5)

A/N	Proposal No.	Title	Principal Investigator -	Host Institution	Approved budget (€)
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			Postdoctoral Researcher Name		
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.	29097	Reflection Group Combinatorics	DOUVROPOULOS THEODOSIOS	UNIVERSITY OF CRETE	58.300,00 €
7.	28952	Deformation Theory of Curves with Automorphisms	TEREZAKIS ALEXIOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	58.300,00 €

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