



2026DILIFRUA1 – Resolution approving and publishing the results of the recruitment process for Specific-Funding Research Personnel – Predoctoral Researcher –, assigned to UAB Departments and Implementing Partners

In accordance with the Resolution announcing a recruitment process for the hiring of Specific-Funding Research Personnel – Predoctoral Researcher –, assigned to UAB Departments or Implementing Partners. The selected candidates will join the research groups of the UAB departments or Implementing Partners specified in the selected positions and will pursue their doctoral studies within the framework of the PHYNEST Project.

Having reviewed the evaluation report of the candidates and in accordance with the established selection criteria,

I HEREBY RESOLVE:

To award the positions of Predoctoral Researcher and projects as follows:

CANDIDATE ID (initials and submission number)	UAB DEPARTMENT/ IMPLEMENTING PARTNER	ASSIGNED PROJECT
VK ID199	Centre de Visió per Computador (CVC)	Quantum machine learning
MS ID553	Institut d’Història de la Ciència (iHC)	Concrete landscapes: technology, politics and environment in the twentieth century
CW ID819	Departament de Física	Energetics of Information: From Timekeeping to Computing
ED ID591	Institut de Recerca en Energia de Catalunya (IREC)	Ultrafast high temperature sintering of ceramic components for solid state batteries
IG ID546	Departament d'Enginyeria Química, Biològica i Ambiental	Optimizing Formate Production in Single-Chamber Electrochemical Cells using Low-Cost Bi and Sn Cathodes
GP ID488	Institut d’Història de la Ciència (iHC)	Contentious “Green Transitions”; renewable energies and geopolitical materials in historical perspectives
HK ID094	Departament de Física	Molecule-programmable 2D organic-inorganic heterostructures through local tuning of their optoelectronic properties

Activity carried out within the PHYNEST project " PHYsics for a greener world: fostering the NExt generation of talented young researchers in novel materials, innovative STRategies and energy solutions" This project has received funding from the European Union programme HORIZON-MSCA-2024-COFUND-01 (Grant agreement No. 101216811).

CANDIDATE ID (initials and submission number)	UAB DEPARTMENT/ IMPLEMENTING PARTNER	ASSIGNED PROJECT
MA ID199	Centre Nacional de Microelectrònica. Institut de Microelectrònica de Barcelona (IMB-CNM)	Electrospun PVDF and copolymer nanofibers for flexible, low-voltage electrocaloric cooling
TK ID689	Departament de Física	Dual-Scale Polarimetry: Miniaturized and Terahertz-Range Polarization Control Using Advanced Materials
DB ID679	Institut de Ciència i Tecnologia Ambientals (ICTA-UAB)	Ecological drivers of the ocean carbonate pump and carbon export: linking biodiversity, trophic interactions, and carbonate biogeochemistry
NP ID675	Departament d'Enginyeria Química, Biològica i Ambiental	Opportunities for synergistic optimization of hydrogen production in microbial electrolysis cells via low-intensity magnetic fields
RR ID418	Departament de Física	Novel magnetoelectric composites for energy- efficient memory concepts based on CMOS compatible ferroelectrics
YL ID720	Departament de Física	Accelerated Discovery of Seawater HER Catalysts via Artificial Intelligence-Guided Electrodeposition of Transition-Metal Alloys
EG ID691	Departament de Química	From Hydrogen Pressure to Electrode Potential: An Electrochemical Approach to Organometallic Nanoparticle Synthesis
UK ID089	Institut Català de Nanociència i Nanotecnologia (ICN2)	Smart gas sensors based on 2D materials
MS ID683	Departament de Física	Phased-array acoustic levitation to characterize contact electrification
AB ID491	Institut de Ciència de Materials de Barcelona (ICMAB-CSIC)	Irradiation effects on High Temperature Superconducting films

CANDIDATE ID (initials and submission number)	UAB DEPARTMENT/ IMPLEMENTING PARTNER	ASSIGNED PROJECT
NM ID169	Departament de Física	Quantum information transfer via high-dimensional structured states
HM ID213	Institut Català de Nanociència i Nanotecnologia (ICN2)	Spin-orbit torques in van der waals heterostructures
NL ID273	Departament de Física	Chiral Symmetry breaking with Quantum Algorithms
XS ID677	Institut Català de Nanociència i Nanotecnologia (ICN2)	2D Transition Metal Dichalcogenides for Thermal Management and Energy-Efficient Technologies
AK ID189	Departament de Física	Magneto-ionics using novel mobile ions for bio-inspired memory and computing systems
AM ID337	Departament de Física	Study of the emergent thermodynamics in magnetic systems
MD ID023	Departament de Física	Non-diffusive heat conduction mechanisms from crystalline to amorphous materials
SK ID345	Departament de Física	Quantum Thermodynamics in Atomic Quantum Simulators

This Resolution exhausts the administrative appeal process. Interested parties may lodge an appeal before the Administrative Courts within a period of two months from the day following notification of this decision, in accordance with **Law 29/1998 of 13 July, regulating the Administrative Jurisdiction**, without prejudice to the possibility of filing, on an optional basis, a **motion for reconsideration** prior to judicial appeal before the Rector of the UAB within one month from the day following receipt of this notification or, where applicable, from the day following its publication, in accordance with Articles 123 and 124 of **Law 39/2015 of 1 October on the Common Administrative Procedure of Public Administrations**.