



QuantERA Call 2025

Projects Recommended for Funding

Important: The final funding decision will depend on national regulations of the funding organisations

Call topic: Quantum Phenomena and Resources (QPR)

Acronym & Title of the Project	Coordinator / Consortium Members	Funding organisations
2DQUEST - Quantum Engineering in Superconducting Graphene for Topological Qubits	Saroj Dash - Chalmers University of Technology (SE); Georg-August-Universität Göttingen (DE); University of Regensburg (DE); Consejo Superior de Investigaciones Científicas (ES)	VR (Sweden); DFG (Germany); AEI (Spain)
BATiR LE CHAT - Bosonic quAntum compuTeRs, LEarning, CHaracterization And Testing	Jonas Helsen - Centrum Wiskunde & Informatica (NL); University of Cologne (DE); Ruhr University Bochum (DE); Institut National De Recherche En Informatique Et En Automatique - Inria Centre Paris (FR); Alice & Bob (FR)	QDNL (Netherlands); DFG (Germany); ANR (France)
CoMaQLev - Magnetically Co-Levitated Superconductors in the Quantum Regime	Benjamin Stickler - Ulm University (DE); Ulm University (DE); University of Vienna (AT); Chalmers University (SE); Stockholm University (SE)	DFG (Germany); FWF (Austria); VR (Sweden)
DigiAnaQsim - Digital methods in analog quantum simulation	Alexander Schuckert - Département d'Informatique de l'Ecole Normale Supérieure (FR); Ludwig-Maximilians-Universität München (DE); Max-Planck Institut für Quantenoptik (DE); Consejo Superior de Investigaciones Científicas (ES); Paul Scherrer Institute (CH)	ANR (France); DFG (Germany); AEI (Spain); SNSF (Switzerland)
ENTUNE - Entangled and Tunable Nanomechanical Quantum Systems	Junho Suh - POSTECH (Pohang University of Science and Technology) (KR); Pukyong National University (KR); University of Zagreb (HR); University of Gothenburg (SE); Charles University (CZ)	NRF (South Korea); HRZZ (Croatia); VR (Sweden); MEYS (Czechia)
EQUALITIES - Efficient Fault-Tolerant Quantum Computing via Fine-Grained Logic Gates on Qudit Codes	Markus Mueller - Forschungszentrum Jülich GmbH (DE); University of Innsbruck (AT); Universitat Jaume I de Castello (ES); University of Helsinki (FI); Center for Theoretical Physics PAS, Warsaw (PL)	DFG (Germany); FWF (Austria); AEI (Spain); AKA (Finland)





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EQUINOCS - Enhanced quantum interactions for optical clocks	Martin Robert De Saint Vincent - Laboratoire de Physique des Lasers (FR) ; Institut Franche-Comte Electronique Mecanique Thermique Et Optique - Sciences Et Technologies (FR); Laboratoire Temps Espace (FR); Wolfgang Pauli Institute (AT); Universiteit van Amsterdam (NL)	ANR (France); FWF (Austria); QDNL (Netherlands)
FeedbacQ - Feedback-enabled quantum optimization and control	Julian Berberich - University of Stuttgart (DE) ; Freie Universität Berlin (DE); Laboratoire des Signaux et Systèmes (FR); Unité de Mathématiques Appliquées (FR); Politecnico di Torino (IT); University of Malta (MT)	DFG (Germany); ANR (France); MUR (Italy); MEYR (Malta)
HEMS - Heat and Entropy Management in Superconducting Devices	Elisabetta Paladino - Catania University (IT) ; Ulm University (DE); Freie Universität Berlin (DE); Aalto University (FI); Polish Academy of Sciences (PL)	MUR (Italy); DFG (Germany); AKA (Finland); NCN (Poland)
INTEGRA - Innovative Architectures for Next-Generation Trapped Atom Interferometers	Marco Fattori - European Laboratory for Non-Linear Spectroscopy (IT) ; Leibniz University Hannover (DE); Technische Universität Wien (AT); Laboratoire Temps Espace (FR); University of Warsaw (PL)	MUR (Italy); DFG (Germany); FWF (Austria); ANR (France); NCN (Poland)
MultiQS - Supper-resolved MULTI-parameter Quantum Sensing with arrays of diamond nanoneedles	Fedor Jelezko - Ulm University (DE) ; University of Eastern Finland (FI); Institute of Physics of the Center for Physical Sciences and Technology (LT); Institute of Organic Chemistry and Biochemistry (CZ)	DFG (Germany); AKA (Finland); LMT (Lithuania); MEYS (Czechia)
QM3L - Quantum protocols for Multimode Mechanics advanced by Machine Learning	Francesco Massel - University of Oslo (NO) ; TU-Darmstadt (DE); Aalto University (FI); ETH Zürich (CH); Palacký University (CZ)	RCN (Norway); DFG (Germany); AKA (Finland); SNSF (Switzerland); MEYS (Czechia)
QNA - Quantum Network Algorithms	Jukka Suomela - Aalto University (FI) ; CISPA Helmholtz Center for Information Security (DE); University of Calgary (CA); Nokia Bell Labs France (FR); Centre Inria de Saclay (FR); Gran Sasso Science Institute (IT); Charles University, Prague (CZ)	AKA (Finland); DFG (Germany); ANR (France); MUR (Italy); MEYS (Czechia)
QUARCKS - Quantum Robust hyper-Clocks and atomic Sensors	Thomas Zanon - De la Molécule aux Nano-objets: Réactivité, Interactions et Spectroscopies (FR) ; Institut Franche-Comte Electronique Mecanique Thermique Et Optique - Sciences Et Technologies (FR); Physikalisch-Technische Bundesanstalt (DE); Center for Quantum Technology, Faculty of Physics, Sofia University (BG); Center for Quantum Technologies (SG)	ANR (France); DFG (Germany); BNSF (Bulgaria);





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QUASIMODO - QUAntum Simulations with MultiComponent ultracold atOms	Oded Zilberberg - University of Konstanz (DE) ; Max-Planck Institute (DE); ICFO (ES); Laboratoire Kastler Brossel (FR); University of Vilnius (LT); Institute of Physics Polish Academy of Sciences (PL)	DFG (Germany); AEI (Spain); ANR (France); LMT (Lithuania); NCN (Poland)
ResonaTHOR - Resonator-based nuclear optical frequency reference	Thorsten Schumm - Technische Universität Wien (AT) ; Institute of Science and Technology Austria (AT); Max-Planck Institute for the Science of Light (DE); Julius-Maximilians-Universität Würzburg (DE); KU Leuven (BE); Ghent University (BE)	FWF (Austria); DFG (Germany); FWO (Belgium)
SDPCode - Semidefinite foundations for quantum codes: convergence, bounds, and constructions	Felix Huber - University of Gdansk (PL) ; Paderborn University (DE); Freie Universität Berlin (DE); Laboratoire d'analyse et d'architecture des systèmes (FR); University of Primorska (SI)	NCN (Poland); DFG (Germany); ANR (France); MVZI (Slovenia)
STAQuS - Synthetic Topological Andreev States: Protected Qubits & Simulators	Szabolcs Csonka - Budapest University of Technology and Economics (HU) ; Pohang University of Science and Technology (KR); Korea Advanced Institute of Science and Technology (KR); Photonique Electronique et Ingénierie Quantiques (FR)	NKFIH (Hungary); NRF (South Korea); ANR (France)
TEMISIS - Taming the tElecom eMission of Spin-defects Integrated in Silicon	Anais Dreau - Laboratoire Charles Coulomb (FR) ; Photonique Electronique et Ingénierie Quantiques (FR); Johannes Kepler University Linz (AT); HUN-REN Wigner Research Centre for Physics (HU); Technical University Delft (NL)	ANR (France); FWF (Austria); NKFIH (Hungary); QDNL (Netherlands)
ToDiQT - Towards Device-independent Quantum Technologies	Gláucia Murta - Technische Universität Wien (AT) ; University of Innsbruck (AT); Université Libre de Bruxelles (BE); Laboratoire Traitement et Communication de l'Information (FR); Institut de physique théorique (FR); University of Gdansk (PL)	FWF (Austria); FNRS (Belgium); ANR (France); NCN (Poland)
ULTRANARROW - Ultranarrow optical and spin transitions in ultrapure crystals	Andreas Reiserer - Technical University of Munich (DE) ; Leibniz Institute of Crystal Growth (DE); Institut de Recherche de Chimie Paris (FR); Observatoire de Paris (FR); Technical University of Delft (NL)	DFG (Germany); ANR (France); QDNL (Netherlands)





Call topic: Applied Quantum Science (AQS)

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μQOC - Microcombs for Quantum Optical Clocks	Jonathan Silver - National Physical Laboratory (UK) ; University of Bath (UK); Fraunhofer Institute for Reliability and Microintegration (DE); Fraunhofer Institute for Silicon Technology (DE); Menlo Systems (DE); École Polytechnique Fédérale de Lausanne (CH)	UKRI EPSRC (United Kingdom); BMFTR (Germany); SNSF (Switzerland)
AL FreSQO - Atom-Light Free-Space Quantum Optics networking	Daniel Oi - University of Strathclyde (UK) ; University of Southampton (UK); Humboldt Universität zu Berlin (DE); University of Padova (IT); ThinkQuantum (IT); Sabanci University (TR)	UKRI EPSRC (United Kingdom); BMFTR (Germany); MUR (Italy); TÜBITAK (Türkiye)
APPSUNCAP - Applications of Superconducting Non-Linear Capacitors	Paul Warburton - University College London (UK) ; National Physical Laboratory (UK); Institut Néel (FR); CENN Nanocenter (SI)	UKRI EPSRC (United Kingdom); ANR (France); MVZI (Slovenia)
DEMAND - Deterministic Electrically-driven Monolithic Architecture for quantum Network Distribution	Luke Wilson - University of Sheffield (UK) ; ICON Photonics (FR); Eindhoven University of Technology (NL); National University for Science and Technology Politehnica Bucharest/ Centre for Surface Science and Nanotechnology - CSSNT (RO); Université de Genève (CH)	UKRI EPSRC (United Kingdom); ANR (France); QDNL (Netherlands); UEFISCDI (Romania); SNSF (Switzerland)
DISQO - DISordered-tailored Quantum Optical sensor	Hugo Defienne - Institut des nanosciences de Paris (FR) ; Friedrich-Alexander Universität (DE); Photonis NL (NL); University of Warwick (UK); Czech Technical University in Prague (CZ)	ANR (France); UKRI EPSRC (United Kingdom); TACR (Czechia)
EXCEL-QKD - Exploration of Cell-free Quantum Key Distribution	Rafael Perez - Universidad de Las Palmas de Gran Canaria (ES) ; University of Luxembourg (Luxembourg); Czech Technical University in Prague (CZ)	AEI (Spain); FNR (Luxembourg); TACR (Czechia)
FALCON - Fault tolerant control of warm ions	Thomas Monz - University of Innsbruck (AT) ; Alpine Quantum Technologies GmbH (AT); Center for Quantum Technologies, Department of Physics, Sofia University (BG); Imperial College London (UK)	FFG (Austria); BNSF (Bulgaria); UKRI EPSRC (United Kingdom)
ICON - Hollow Core Fibers for Quantum Communication with Quantum Dots	Philip Walther - University of Vienna (AT) ; QUBO Technology GmbH (AT); University of Southampton (UK); Czech Technical University in Prague (CZ)	FFG (Austria); UKRI EPSRC (United Kingdom); TACR (Czechia)
IgnisQNC - Harnessing Quantum Uncertainty: Trustworthy Quantum Neural Computing for Quantum Utility	Richard Jiang - Lancaster University (UK) ; Ludwig Maximilian University of Munich (DE); University of Lübeck (DE); Aqarios GmbH (DE); Universidad Pablo de Olavide, de Sevilla (ES)	UKRI EPSRC (United Kingdom); BMFTR (Germany); AEI (Spain)
IQNoVa - Interconnected Quantum Nodes Benchmarking and Validation	Orsolya Kalman - HUN-REN Research Centre for Physics (HU) ; Forschungszentrum Jülich GmbH (DE); University of Stuttgart (DE); University of Helsinki (FI); Algorithmiq (FI)	NKFIH (Hungary); BMFTR (Germany); AKA (Finland)





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LINQSENS - Loss-tolerant INtegrated Quantum SENSors based on nonlinear interferometry	Raj Patel - Imperial College London (UK) ; University of Oxford (UK); The Institute of Photonic Sciences (ES); ETH Zurich (CH); ID Quantique SA (CH)	UKRI EPSRC (United Kingdom); AEI (Spain); SNSF (Switzerland)
Q-SPEC3D - Quantum-enabled SPECTral 3D imaging and estimation	Gianlorenzo Massaro - Università degli Studi di Bari "Aldo Moro" (IT) ; Cailabs (FR); Laboratoire Kastler Brossel (FR); University of Glasgow (UK)	MUR (Italy); ANR (France); UKRI EPSRC (United Kingdom)
Quanti-PEP - multi-modal Quantum Imaging of cellular metabolism for high throughput screening for peptide-based cancer vaccines	Roland Nagy - Friedrich-Alexander-Universität Erlangen-Nürnberg (DE) ; QuantumCell Diagnostic (DE); University of Helsinki (FI); Heriot-Watt University (UK)	BMFTR (Germany); AKA (Finland); UKRI EPSRC (United Kingdom)
QuantLIGs - Quantum Tuning of "Laser Induced Graphene" for Sensing	Patricia Scully - University of Galway (IE) ; NORCE Research (NO); University of Liverpool (UK)	TÉ-RI (Ireland); RCN (Norway); UKRI EPSRC (United Kingdom)
Quantum4Health - Quantum Imaging System for Intraoperative Highly Effective Diagnostics Allowing Gentle Tumor Surgery and High Impact for Healing	Georg Meineke - Fraunhofer Institute for Laser Technology ILT (DE) ; betaSENSE GmbH (DE); Universitätsklinikum Aachen AöR (DE); Centre de Nanosciences et de Nanotechnologies (FR); Thales Research and Technology (FR); Applied Nanotechnology Research Group, Saxion University of Applied Sciences (NL)	BMFTR (Germany); ANR (France); QDNL (Netherlands)
QUICFIRE - QUantum Internet Components in all-Fibre REalisation for low-loss entanglement distribution	Alexander Davis - University of Bath (UK) ; University of Southampton (UK); QTLabs (AT); Technical University of Vienna (AT); University of Warsaw (PL)	UKRI EPSRC (United Kingdom); FFG (Austria); NCBR (Poland)
SINPHONI - On-chip Moiré Single-Photon Emitters for Quantum Communications	Javier Martín Sánchez - University of Oviedo (ES) ; Instituto Madrileño de Estudios Avanzados en Nanociencia (ES); Marburg University (DE); Vorarlberg University of Applied Sciences (AT); Testtec Prüfstandtechnik und Bauteilerprobungs GmbH (AT); Sapienza University of Rome (IT); University of L'Aquila (IT); Delft University of Technology (NL); Institute of Physics, Czech Academy of Sciences (CZ)	AEI (Spain); BMFTR (Germany); FFG (Austria); MUR (Italy); QDNL (Netherlands); TACR (Czechia)
TeRaRy - Precision terahertz-radiation detection with Rydberg atoms	Christian Groß - Eberhard Karls Universität Tübingen (DE) ; Lytid SAS (FR); Consiglio Nazionale delle Ricerche, Istituto Nazionale di Ottica (IT); Istituto Nazionale di Fisica Nucleare (IT); Durham University (UK)	BMFTR (Germany); ANR (France); MUR (Italy); UKRI EPSRC (United Kingdom)

Projects funded under QuantERA Call 2025 should start between June and September 2026.
All selected projects are envisioned to last 36 months.
QuantERA Coordinator & Call Secretariat, 29 May 2026

