

Department of Energy Announces \$73 Million for Materials and Chemical Sciences Research for Quantum Information Science

Principal Investigator	Title	Institution	City	State	9-digit zip code
Awschalom, David	Generation and Remote Distribution of Quantum Entanglement in Solids	Argonne National Laboratory	Lemont	IL	60439-4803
Cushing, Scott	A Synthetic Electronics Route to Scalable and Competitive Molecular Qubit Systems	California Institute of Technology	Pasadena	CA	91125-0001
Di Felice, Rosa	Q4Q: Quantum Computation for Quantum Prediction of Materials and Molecular Properties	UNIVERSITY OF SOUTHERN CALIFORNIA	Los Angeles	CA	90089-0701
Dionne, Jennifer	Moire excitons for quantum information science	Stanford University	Redwood City	CA	94063-8445
Evangelista, Francesco	Quantum Chemistry for Quantum Computers	Emory University	Atlanta	GA	30322-4250
Frank, Natia	Optical-Gating of Spin-based Quantum States for QIS	University of Nevada, Reno	Reno	NV	89557-0240
Freedman, Danna	Creating and Interfacing Designer Chemical Qubits	Northwestern University	Chicago	IL	60611-4579
Fuchs, Gregory	Hybrid Quantum Magnonics for Transduction and Sensing	Cornell University	Ithaca	NY	14850-2820
Hautier, Geoffroy	Mapping the genome of coherent quantum defects for Quantum Information Science	Dartmouth College	Hanover	NH	03755-1421
Hoffmann, Axel	Hybrid-Magnon Quantum Devices	University of Illinois	Champaign	IL	61820-7406
Hunt, Benjamin	Van der Waals Reprogrammable Quantum Simulator	Carnegie Mellon University	Pittsburgh	PA	15213-3589
Jayich, Ania	Atom-defect Hybrid Quantum Systems	University of California, Santa Barbara	Santa Barbara	CA	93106-2050
Jesse, Stephen	Understanding and Controlling Entanglement in Solid-State Systems via Atomic Scale Manipulation	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Kais, Sabre	Quantum Computing Algorithms and Applications for Coherent and Strongly Correlated Chemical Systems	Purdue University	West Lafayette	IN	47907-2114
Kamal, Archana	Next-Generation Parametrically-Induced QUantum Engineering	University of Massachusetts Lowell	Lowell	MA	01854-3692
Konik, Robert	Spin Chain Bootstrap for Quantum Computation	Brookhaven National Laboratory	Upton	NY	11973-5000
Kowalski, Karol	Embedding quantum computing into many-body frameworks for strongly correlated molecular and materials systems.	Pacific Northwest National Laboratory (PNNL)	Richland	WA	99352-1793
Krauss, Todd	UNLOQ: Understanding coherence in Light-matter interfaces for Quantum Science	University of Rochester	Rochester	NY	14627-0140
Lev, Benjamin	Frontiers in Quantum Metrology and Transduction	Stanford University	Stanford	CA	94305-8445
Minasian, Stefan	Molecular f-Element Qubits with Controllable Quantum Coherence and Entanglement	Lawrence Berkeley National Laboratory (LBNL)	Berkeley	CA	94720-8099
Nadj-Perge, Stevan	Correlated Phases and Flat Bands in Moiré Heterostructures: a New Toolbox for Quantum Science	California Institute of Technology	Pasadena	CA	91125-0001

Poluektov, Oleg	Revealing Nature's Optimized Quantum Spin Coherences in Photosynthetic Proteins	Argonne National Laboratory (ANL)	Lemont	IL	60439-4803
Pribiag, Vlad	Integrated Materials Platforms for Topological Quantum Computing Devices	University of Minnesota	Minneapolis	MN	55455-2070
Rossi, Enrico	Novel Topological Josephson Junctions Architectures for Fault-Tolerant Qubits and Advanced Sensing	The College of William and Mary	Williamsburg	VA	23187-8795
Rury, Aaron	Multi-component Cavity Polaritons for Tunable Intermolecular Entanglement and Controlled Photon-to-Electron Quantum Transduction	Wayne State University	Detroit	MI	48202-4050
Shan, Jie	Planar systems for quantum information	Cornell University	Ithaca	NY	14850-2820
Shankar, Shyam	Holographic quantum simulation of strongly correlated electron systems	The University of Texas at Austin	Austin	TX	78759-5316
Siddiqi, Irfan	High-Coherence Multi-layer Superconducting Structures for Large Scale Qubit Integration	Lawrence Berkeley National Laboratory	Berkeley	CA	94720-8099
Tang, Hong	Hybrid quantum systems: spins, photons and superconducting qubits	Yale University	New Haven	CT	06520-8327