



Schweizerische Eidgenossenschaft
Confédération suisse
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Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
**State Secretariat for Education,
Research and Innovation SERI**
International Research and Innovation Programmes

List of SERI-funded projects in response to Quantum Transitional Call 2022

Information as of 11 May 2023

Acronym	Full title	Main applicant Institution	Direct funding by SERI (CHF)
2SQ3PSQ	Small-scale quantum processor from partially-protected superconducting qubits	MANUCHARYAN Vladimir Swiss Federal Institute of Technology Lausanne (EPFL)	1'164'242
EnsQSens	Novel, ensemble-based quantum sensors	MALETINSKY Patrick University of Basel	1'817'668
GATE2Q	Gallium phosphide transducers enabling optical two-qubit entanglement	SEIDLER Paul IBM Research	772'268
GraQuaDotQb	Graphene quantum dot qubits	IHN Thomas Swiss Federal Institute of Technology Zurich (ETHZ)	1'480'896
Holograph	Holograph quantum sensing beyond the standard	BRANTUT Jean-Philippe Swiss Federal Institute of Technology Lausanne (EPFL)	3'142'366
leviQ	Quantum limit with levitated nanoparticles	NOVOTNY Lukas Swiss Federal Institute of Technology Zurich (ETHZ)	855'185
METRIQ	Microwave-optical transduction for superconducting quantum computing	KIPPENBERG Tobias Jan Swiss Federal Institute of Technology Lausanne (EPFL)	809'616
ModQC	Modular quantum computing with superconducting circuits	WALLRAFF Andreas Swiss Federal Institute of Technology Zurich (ETHZ)	2'175'803



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NoiseRobust	Scalable and noise-robust quantum simulation algorithms for near-term hardware	HOLMES Zoe Swiss Federal Institute of Technology Lausanne (EPFL)	1'022'496
QCNetQER	Quantum communication networks: quantum encryption & repeaters	BRUNNER Nicolas University of Geneva	3'735'654
QMetMuFuSP	Quantum metrology with multi-functional spin probes	DEGEN Christian Swiss Federal Institute of Technology Zurich (ETHZ)	821'868
QuC/AlgNMR	Hybrid quantum-classical algorithms for gate-based simulations: analysis of electronphonon systems and quantum enhanced NMR inference	DEMLER Eugene A. Swiss Federal Institute of Technology Zurich (ETHZ)	832'627
SpoCoSQ	Spin-orbit control in a triangular ring of hole spin qubits	FUHRER Andreas IBM Research	963'889
sQnet	Scalable high bandwidth quantum network	TREUTLEIN Philipp University of Basel	1'898'304
SuperCAR	Superconducting cavity arrays for analog quantum simulation	SCARLINO Pasquale Swiss Federal Institute of Technology Lausanne (EPFL)	1'361'913
SuperSQUID	Superconducting circuit engineering using scanning SQUID microscopy	POGGIO Martino University of Basel	1'146'204
	TOTAL (including 15% overhead for each project)		<u>24'000'000</u>