

National Quantum Science and Technology Institute: Spoke 8 "Technology Transfer"

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National Quantum Science and Technology Institute (NQSTI) vision is that the extraordinary PNRR funding have to be used to update technical facilities and strengthen the QST community in the next few years, particularly it must be used to drive this community into an ordinary and sustainable condition of increased impact, visibility, and capacity to modernize and support the competitiveness of the Italian economy.

Specifically, the *National Quantum Science and Technology Institute* is a consortium that intends to:

- (i) team up Italian entities carrying out competitive and innovative research in the field of quantum science and technology (QST), and
- (ii) stimulate future industrial innovation in the field, providing a forum in which novel ideas and opportunities are transferred to companies.

In order to ensure a long-term positive effect on the Italian economic growth and development, the whole innovation chain was considered: from the strengthening and coordination of the low-TRL research, to its translation into prototypes, favoring interfacing with industrial needs thanks to strong outreach and continued-education programs. Importantly, the creation and incubation of spin-offs and start-ups that can move research outcomes up in the TRL-ranking are included in the proposal scope with significant resources and a special focus onto the southern regions.

The National Quantum Science and Technology Institute long term goal is to contribute to the establishment in Italy of a Knowledge Transfer (KT) System for Quantum Technologies i.e. to manage the activities and the processes through which knowledge, expertise and qualified personnel flow between the research system (institutes, universities, research centers) and the community of end users in the industrial sectors, in commerce, in the service and in the public sectors.

The Open Calls dedicated to the firms (SMEs and MNCs), that could finance the creation of spin-offs and start-ups, new Joint Labs and the cooperation with Public and private Research Centers are open and have been published on NQSTI official webpage. We will present the possibilities available for collaboration to PROs and single scientists.

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References:

<https://nqsti.it/>
<https://nqsti.it/index.php/calls/bando-cascata-spoke-8-bando-1>
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