

## **Advanced facilities for the realization of quantum devices in Piedmont**

With the new available manufacturing and characterization systems scientists can understand what happens at a sub-atomic level and also control this quantum behaviour enough to develop new technologies. EU and National programs launched several quantum initiatives to move quantum technologies to industry.

On 2018 Regione Piemonte funded the "*Piemonte Quantum Enabling Technology*" (PIQUET) a new LABS ruled by Politecnico of Torino, INRIM and University of Torino <https://piquetlab.it/>. PiQuET – Piemonte Quantum Enabling Technology – is an applied research infrastructure with the aim of implementing and developing quantum micro and nano technology processes. PiQuET originated from a winning proposal in the framework of the POR FESR 2014-2020 call (Action: I.1a.5.1 Misura: INFRA-P Sostegno a progetti per la realizzazione, il rafforzamento e l'ampliamento di IR pubbliche), implemented by the Piedmont Region. PiQuET has the intent to be a national reference center where scientific challenges and engineering problems are faced both in support of advanced research and industrial innovation in the field of micro, nano and quantum technologies, thanks to a consolidated know-how coming from the major scientific poles of Piemonte region.