Annex A – Positions with specific topic

Ph.D. Course	**NANOSCIENCES**
Scholarship type	MISSIONE 4 – ISTRUZIONE E RICERCA Investimento 4.1 - Dottorati di ricerca PNRR (art. 8, DM 118/2023)
N.	2
CUP	**E53C23001300001**
Title	**Nanotechnologies for Quantum Sciences and Technologies**
Brief description of the research project	Nanotechnologies provide a set of experimental methods and a cultural approach of great importance for the design and implementation of relevant systems for quantum sciences and technologies. This course will allow students to acquire specific knowledge and experience for the design of electronic configurations, both in the single particle limit and in the case of collective states, suitable for the implementation of functional blocks of interest for quantum technologies. In addition to the design of these systems, the course will also provide the methods for the realization of solid-state nanostructured systems capable of supporting these electronic configurations for a wide range of applications such as quantum computing, sensing, the realization of simulators, etc.
SSD	FIS/03
Period of study and research to be carried out abroad	It is mandatory to carry out periods of study and research in companies or research centers from a minimum of six (6) months to a maximum of twelve (12) months, even if not continuous, and periods of study and research abroad, The destinations for each student will be decided by supervisors and the Ph.D course board.