CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER L'ASSUNZIONE CON CONTRATTO DI LAVORO SUBORDINATO A TEMPO PIENO E INDETERMINATO DI N. 1 RICERCATORE DI III LIVELLO PROFESSIONALE DEL C.C.N.L. ISTRUZIONE E RICERCA.

AREA SCIENTIFICA: MICROSCOPIA AVANZATA E SCIENZA DEI MATERIALI.

BANDO N. 1/2025.

TRACCIA 3

Propose a correlative microscopy workflow integrating TEM/STEM with complementary techniques (e.g., X-Ray Spectroscopy, X-Ray Diffraction, Raman spectroscopy, functional measurements, synthesis-controlled characterization) for the study of a nanostructured or complex material (e.g., optoelectronic materials, coatings, energy-harvesting materials). In particular, the candidate should describe how to correlate local microstructural and/or chemical compositional features (defects, strain, crystallographic orientation, interfaces, oxidation states) observed in electron microscopy with macro- or mesoscale information from complementary techniques and how the correlative approach allows establishing a structure–composition–function relationship in a concrete materials-science case study.