Profile sheet attached to recruitment call TD7/2023

PROFILE CODE AND PROJECT OF REFERENCE	**A: RAMAN SPECTROSCOPIST** **PROJECT: PRP@CERIC**
POSITIONS UNDER SELECTION	**1**
EXPECTED CONTRACT DURATION	19/18 MONTHS with possible extension
PLACE OF WORK	Initial location for the role will be the Area Science Park Campus, located at Basovizza, S.S. 14, Km 163.5, 34149 Trieste and, primarily, at Elettra Sincrotrone Trieste S.C.p.A. - Basovizza.
DEGREE CLASSES REQUIRED FOR ADMISSION	LM17 – PHYSICS LM54 – CHEMICAL SCIENCE LM53 – MATERIALS SCIENCE AND ENGINEERING LM44 – MATHEMATICAL AND PHYSICAL MODELLING FOR ENGINEERING LM30 – ENERGY AND NUCLEAR ENGINEERING LM09 – MEDICAL, VETERINARY AND PHARMACEUTICAL BIOTECHNOLOGY LM21 – BIOMEDICAL ENGINEERING LM22 – CHEMICAL ENGINEERING LM06 – BIOLOGY
DESCRIPTION OF THE POSITION	In the laboratory, the researcher, along with the research group operating there, and engaging their expertise for the development of new lines of research, will perform the following activities: - Design, development and testing of the Resonance Raman macro and micro optical system with UV excitation at the IUVS experimental station dedicated specifically to the Raman UV study of biological samples with different excitation wavelengths; - Development and fine-tuning of experimental protocols for the acquisition of Raman Resonance macro and micro spectra with UV excitation from biological samples and chemometric approaches for identification and screening of pathogens - Assistance and coordination of internal research activity in the context of the IUVS unit of the PRP@CERIC Project, promoting dissemination and sharing of scientific results by writing articles and participation in sector-specific seminars and workshops, supporting potential new users in writing and presentation of scientific proposals for access to the Raman Resonance macro and micro-UV experimental station of the IUVS unit and guaranteeing technical and scientific assistance during user experiments.