

Department of Agricultural, Environmental and Food Sciences

- Profile:

n. 1 researcher **letter a)** pursuant to art. 24 of the law n. 240/2010, for the competition Sector 07/E1 - CHIMICA AGRARIA, GENETICA AGRARIA E PEDOLOGIA, S.S.D. AGR/14 - PEDOLOGIA - defined time.

- Program of teaching activity, service to students and research activity:

The researcher will carry out fundamental and integrative teaching activity within the undergraduate, master and doctorate courses at the Department of Agricultural, Environmental and Food Sciences. The frontal teaching activity and laboratory exercises will be assigned to the researcher from the Department. The researcher must have competences to carry out teachings in the AGR/14 sector Pedology and Soil Science.

- Objectives of scientific productivity (publications, congress, and other products) and the quality of scientific production:

The candidate must reach research objectives of high international profile, producing publications on international widespread journals, allowing himself to provide significant scientific improvement to the S.S.D. AGR/14 and to evaluation of VQR (the Ministerial Research Evaluation Quality). The research must be carried out within the SSD AGR/14 (Pedology) particular in soil chemistry and soil mineralogy. The main focus will be the characterization of spatial distribution of soil properties by using diffuse spectral reflectance spectroscopy NIR in order to obtain higher spatial resolution in soil modelling and management.. Soil genesis regarding the evolution of the iron minerals and organic matter in Mediterranean soils.

- Place of the service activity: Campobasso; Department of Agricultural, Environmental and Food Sciences.

- Additional requirements for admission to the selection process with respect to those required under art.5 of the competition Regulation: none.

- Maximum number of publications to be presented: 12.

-Foreign language of which knowledge is required: English.

- Modalities by which the researcher, periodically and at the end of the contract, must report back the results of the done work: a report on research and teaching activity carried out.