

Department of Agricultural, Environmental and Food Sciences

- Profile: n. 1 researcher **lettera a)** pursuant to art. 24 of the law n. 240/2010, **full time**, for the competition Sector 07/B2 - SCIENZE E. TECNOLOGIE DEI SISTEMI ARBOREI E FORESTALI, S.S.D. AGR/05 - ASSESTAMENTO FORESTALE E SELVICOLTURA.
- Teaching activity: the applicant should be able to give qualified support to lectures and field works related to the bachelor's degree, master's degree, and doctorate programs delivered by the Department of Agricultural, Environmental and Food Sciences at the University of Molise. This teaching activity will be assigned by the Department. The applicant will have competences for teaching courses belonging to sector AGR/05 FOREST PLANNING AND SILVICULTURE.
- Research activity: research activities will aim to integrate traditional monitoring techniques with remote sensing techniques, proximal sensing instruments (LiDAR) and the application of ecophysiological instrumentations for characterizing forest structural attributes, assessing growing stock and forest productivity, determining growth dynamics, tree phenology and species-specific thresholds of resilience. In addition, indicators of *climate-smart forestry* will be developed and tested in mountain forests to study their capacity to climate change adaptation and mitigation. Forefront environmental monitoring techniques will be applied to investigate the response of forest ecosystems to environmental disturbances, and for developing guidelines for adaptive forest management and forest restoration.
- Objectives and quality of scientific production (publications, workshops, etc.): the applicant will have to develop the research activity with publications in international journals, within the field of silviculture and forest ecology, following the criteria of VQR (Evaluation of Research Quality).
- 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.