

## **Department of Biosciences and Territory**

### **Position:**

Full-time appointment fixed term Researchers Contract Type a) as by the art. 24 of Italian Law n. 240/2010, for the Academic Discipline AGR/06 WOOD TECHNOLOGY AND FORESTRY OPERATIONS, Academic Recruitment Field 07/B2 ARBORICULTURE AND FOREST SYSTEMS, Area 07 AGRICULTURAL AND VETERINARY SCIENCES.

### **Program of teaching activities, student assistance and research:**

**Teaching activities:** The candidate will be asked to carry out teaching activities, including integrative courses, and to provide support for students within basic and/or advanced, theoretical and practical, courses within the Academic Discipline of Wood technology and forestry operations in Forest and Environmental Science and Technology, as well as for other master courses at the University of Molise, including a doctorate, master, and for teaching in an international context.

**Research activities:** The candidate will be asked to implement research activities within the Academic Discipline of the Wood technology and forestry operations, with particular reference to the assessment and integration of territorial, ecological, environmental-climatic, social and spatial variables to design sustainable urban forestation interventions. The final objective of the research will be to identify strategies for optimizing Nature Based Solutions with respect to national urban contexts in consideration of the aforementioned variables including ecoregional characteristics. The research will investigate the effectiveness of NBS in national urban and peri-urban contexts on the basis of key indicators connected with biodiversity (ecosystem services, financial sustainability, resilience over time, etc.). The research will have to develop predictive models of the urban green pattern and of the ecological networks in different scenarios of climate change and land use supported by multi-temporal analyzes of the urban and peri-urban natural and semi-natural areas in order to implement an integrated green design.

### **Scientific production goals (scientific papers, conferences, other types of products) and qualitative features of the scientific production:**

The candidate should aim to carry out research with a high international profile, with publications in wide-spread international journals that could provide a significant contribution to the next Research Quality Assessment (VQR) of the Department of Biosciences and Territory of the University of Molise.

**Activity location:** Department of Biosciences and Territory of University of Molise - Pesche. The researcher could carry out the research activities within other Departments of the University of Molise as well as other national and international research Institutions depending on the particular needs of the research program.

**Maximum number of scientific papers that the candidate can exhibit:** 12.

**Foreign language for which a detailed knowledge is required:** English.

**Periodic and final reporting mode of the achieved work results the researcher is required to submit:** Annual report of the teaching and research activities, current research projects, and expected results in terms of publications in journals with impact factor.