

## DEPARTMENT OF AGRICULTURAL, ENVIRONMENTAL AND FOOD SCIENCES

### **Position:**

Full-time appointment fixed term Researchers Contract Type a) as by the art. 24 of the Italian Law n. 240/2010, with a part-time commitment, for the Academic Discipline CHIM/01 ANALYTICAL CHEMISTRY, Academic Recruitment Field 03/A1 ANALYTICAL CHEMISTRY, Area 03 CHEMICAL SCIENCE.

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

Teaching program: the candidate will be asked to carry out teaching activities, including integrative courses, and to provide support for students, within the Academic Discipline of Analytical Chemistry (CHIM/01) for all degree and master's degree courses of the Department of Agricultural, Environmental and Food Sciences, for other degree courses active in the University of Molise, for the PhD and master's degree courses, and for any teaching carried out at international level.

Research activities: The candidate will be asked to carry out research activities within the Academic Scientific Disciplinary Sector CHIM/01 ANALYTICAL CHEMISTRY, with particular reference to the study, development and application of innovative and sustainable sampling and analytical methods for the qualitative and quantitative determination of chemical species (phthalates, polycyclic aromatic hydrocarbons, polychlorinated biphenyls, dioxins, furans, pesticides, heavy metals) in the food, agricultural, biological and environmental fields, with particular reference to the chemical matrices and species envisaged by the European project HORIZON-HLTH-2021-ENVHLTH-02 from title "Evidence Driven Indoor Air Quality Improvement (EDIAQI)". Particular attention must be given to the evaluation of inorganic and organic contaminants present at trace and ultra-trace levels in food and environmental matrices, as well as to constant maintenance and optimization of the analytical instrumentation.

**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 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 Agricultural, Environmental and Food Sciences of the University of Molise.

**Activity location:** Department of Agricultural, Environmental and Food Sciences of the University of Molise - Campobasso. The researcher will carry out the research activities within other Departments of the University of Molise and national and international research Institutions, depending on the specific needs of the research program.

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

**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 international journals.