

# CALL FOR A POST-DOCTORAL POSITION AT CNR-IRET

## Background

Climate change is causing strong impacts on the environment and human health, particularly in urban areas due to increasing urbanization combined with high soil consumption and pollution of environmental components. The European Commission has launched the European Green Deal, a new growth strategy plan to make the EU's economy sustainable by reducing net greenhouse gas emissions to 0 by 2050. Within this framework, nature-based solutions (NBS) are suggested as environmentally-friendly technologies to face climate change, unsustainable urbanization and related human health issues, degradation and loss of natural capital, and the ecosystem services it provides such as clean air, water and soils. This appears particularly crucial in urban environment considering that cities accounts for more than 70% of the global CO<sub>2</sub> emissions.

## Objectives

- Assessing CO<sub>2</sub> balance through the Life Cycle Assessment analysis of NBS taking into account their ecosystem services (ES) provision
- Assessing the contribution of key parameters to help cities reaching the ambitious goal of Carbon neutrality
- Suggesting and implementing effective tools to reduce Carbon emissions and maximize ES to address technical, social and economic challenges

## Contribution expected from the expert

The expert is expected to have a background on LCA and related fields to actively contribute to the topic through the use of appropriate tools including LCA software and models to quantify the CO<sub>2</sub> balance and the contribution of NBS in urban and rural contexts within the H2020 "ProGInreg" project and the PRIN project "EUFORICC" and other related international, national and local projects carried out by the CNR-IRET team. The results of the research will be discussed either in the scientific community through publications in international journals but also through direct contacts with city administrations and related stakeholders

## Selection criteria

Interested candidates are requested to submit:

- a **cover letter** explaining the applicant's motivation for answering this call, briefly stating what contribution she or he could bring to the research
- a **comprehensive and detailed CV**
- a list of **relevant publications**
- the List of **fields of expertise/specialization** with a consolidated and proven experience with **LCA analysis and software**

## Salary

The salary will be set according to the Italian Law for postdoctoral positions (Assegno di Ricerca) ranging from 25000 to 30000 € per year depending on qualification. The position will be originally for one year likely extended for at least 3 years or more.

## Working environment and Selection procedure

The candidate will work in the Headquarters of the Institute of Research on Terrestrial Ecosystems (IRET) of the National Research Council (CNR), in Porano (TR), Italy ([www.iret.cnr.it](http://www.iret.cnr.it)).

The candidate will work in the interdisciplinary Team led by Dr. Carlo Calfapietra, Director of the Institute, who has a recognized international leadership in the field of Nature Based Solutions, Green Infrastructure and Sustainability of Urban environment ([www.carlocalfapietra.com](http://www.carlocalfapietra.com)). The Team will be also responsible for the selection procedure.

## Deadline and Contacts

Applications will be collected until position is filled. The research is expected to start in the first half of 2021 when a suitable candidate is selected. To send applications and for any inquiry, please contact Dr. Carlo Calfapietra ([carlo.calfapietra@cnr.it](mailto:carlo.calfapietra@cnr.it)) and Dr. Rocco Pace ([rocco.pace@iret.cnr.it](mailto:rocco.pace@iret.cnr.it)).