



Università
Ca' Foscari
Venezia

Global@Venice

Post-doc Fellowship at Ca' Foscari University of Venice

“Expression of Interest” for Global at Venice - call 2021

1. Interested institution (legal person):

Ca' Foscari University of Venice

2. Department/Centre:

The **Department of Environmental Sciences, Informatics and Statistics (DAIS)** is engaged in multidisciplinary research produced by the recognized experience of the researchers in the analysis of environmental systems, in the management and modelization of environmental and informatic systems, in climate studies, in complexity, in the preservation of cultural heritage and in sustainability.

The project will be included in the activities of the AdvanCes in Autonomous, DIstributed and pervAsive systems (ACADIA) Centre that aims at contributing effective answers to the scientific and technological issues underlying the challenges of implementing modern pervasive and distributed systems, with specific focus on security, performance and data-analysis.

3. Position, scientific requirements, topic, scientific panel:

Position:

Post-doc Position.

The suggested topics of this research, to be discussed with the grant winner, will be the new generation of distributed wireless networks.

This includes:

- wireless backhaul networks for XG (5G and beyond), for which there is an ongoing work which is producing a huge database of networks that will feed future works on the performance, the topology features and the robustness of wireless backhaul networks. This topic is at the border of networking, network science and telecommunications research.
- Large-scale wireless mesh networks, which are today a key topic to address digital divide, and provide the ground for interdisciplinary research which involves not only CS themes but also themes related to the economic sustainability of these networks.
- More applications of the previous techniques to other related fields, large IoT networks, or high-speed wired network with dynamic topologies.

Scientific requirements:

PhD in Computer Science/Computer Engineering/Telecommunications, or any other similar field.

The fellow should have experience in the networking field, at large, interdisciplinary research experiences are a plus.

Topic(s):

We are interested in proposals in one of the following Scientific Panels covering the following topics:

- 1) Large scale wireless mesh networks
- 2) Integrated access and Backhaul (IaB)
- 3) IoT networks



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Scientific Panel:

X PE - Physical Sciences and Engineering

LS - Life Sciences

SH - Social Sciences and Humanities

4. Contact person:

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