



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:

Department of Molecular Sciences and Nanosystems (DSMN).

This department is composed mainly by experimentalists whose research is at the interface of chemistry and nanomaterials with a strong focus on the H2020 Pillars.

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

##### Position:

Post-doc Position

##### Scientific requirements:

PhD in Chemistry or PhD in Materials Science or PhD in Physics.

The fellow should have strong experience in computational modelling of molecular systems, clusters and/or (bio- and nano-) materials, and in the predictions of their properties. Besides, some background knowledge in the experimental techniques useful for the characterization of these systems (for example, linear and/or non-linear spectroscopies, SEM, TEM, XRD) is desirable.

The fellow should also have strong leadership and teamworking abilities, research independence, and a strong international experience.

##### Topic(s):

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

- 1) studies on non-covalent interactions (with special focus on the micro-solvation steps of biomolecules and on the formation of clusters of neutral and charged systems);
- 2) characterization of innovative (bio- and nano-) materials and modeling of their properties by coupling *ab initio* predictions to the outcomes of appropriate experimental techniques;
- 3) developments of computational methods for spectroscopies, for the modeling of reactive surfaces, for kinetics and for thermochemistry.

##### Scientific Panel:

##### X PE - Physical Sciences and Engineering

- LS - Life Sciences
- SH - Social Sciences and Humanities

#### 4. Contact person:

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