Research fellowship on: Data Science for Eco-Mobility: analyzing and modeling the environmental impact of the urban mobility - Università Ca’ Foscari Venezia

(Italian law 30 December 2010, n.240, art. 22)

The present document in English is to be considered as a mere summary of the main provisions of the notice of competition which is available in Italian at the following [link]. The text in Italian is the official text of the notice of competition for all legal intents and purposes and, in the event of non-conformity with the present document, it shall prevail.

Description
The Department of Environmental Sciences, Informatics and Statistics at Università Ca’ Foscari Venezia invites applications for a post-doc fellowship in:

**TITLE**: Data Science for Eco-Mobility: analyzing and modeling the environmental impact of the urban mobility

**SSD**: INF/01

**Scientific director**: Prof. Salvatore Orlando – Prof. Andrea Gambaro

**Duration**: 12 months approximately starting: **March 2019**

**Abstract**: Part of the research activities regards ecological modeling and management of mobility within the EU Interreg project "ECOMOBILITY" (Jan 2018 – Jun 2019). Among other objectives, ECOMOBILITY aims at developing innovative tools for traffic management with the final goal of reducing peaks of pollution. The rest of research activity is not related to a project and is concerned with other topics of interest of the research group at Ca’ Foscari. Topics include, but are not limited to, the following areas: learning-to-rank and Information Retrieval, deep/machine learning, adversarial machine learning, aspect of efficiency and scalability of deep/machine learning and analysis of Big Data analysis, predictive analysis of mobility data with applications to tourism and public transportation. Within the last research area, the fellow may take advantage of the program of researcher mobility allowed by the H2020 MSCA-RISE-2017 "MASTER" in which we are involved.

The research may be carried out in English.

The fellowship is intended to provide the successful candidate with the opportunity to pursue his/her own research while benefiting from the range of expertise at Università Ca’ Foscari Venezia.

Who can apply

1. Prospective candidates are expected to hold a master’s degree in **Computer Science or in Computer Engineering** or related disciplines.

Ca’ Foscari encourages applications from researchers with positive evaluation in all the criteria in individual proposals such as Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar. Researchers having successfully completed by 30/09/2018 Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar funded projects are warmly encouraged to apply.
**Duration of contract:** 12 months approximately starting:

**Stipend:** The research fellowship amounts to **23,367.00 Euros per year**, including taxes and social charges.

**Deadline for submission of applications:** 18/02/2019 - 12.00 noon.

**How to apply:**
Candidates should submit:
1. The application form;
2. A CV in European format, duly dated and signed;
3. A copy of a valid identity document (either Identity Card or Passport);
4. (If available) Evaluation Summary Reports of Marie Skłodowska Curie Actions - Individual Fellowships/ ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) individual proposals having passed all the evaluation thresholds;
5. (If available) Details of Marie Skłodowska Curie Actions - Individual Fellowships, ERC Starting Grants, FIRB (Italian Fund for basic research investments)/ SIR Scientific Young Independence Research funded projects;
6. All documents, qualifications and publications relevant for the selection procedure (please, see the notice [link](#)).

All the schemes of the quoted documentation are available on the website ([link](#)).

**How to submit your application**
Applications should be submitted by the online procedure, available on the notice webpage ([link](#))

**Or submit here:**
[https://static.unive.it/domandeconcorso-en/accesso/dais180119orlandoeconomobility](https://static.unive.it/domandeconcorso-en/accesso/dais180119orlandoeconomobility)

The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of his/her application.

The candidate if necessary could access the procedures for updating any data and materials by the link provided by the e-mail, in any case any updates must be made no later than the deadline 18/02/2019 - 12.00 local time.

Please note that the University can be contacted for any support needs by the candidate until 24 hours prior to the deadline.

Please note that in case of an high number of applications and / or weight of the materials loaded by the candidates the system might become slower, Therefore it is suggested not to start the process close to the deadline.

**NB:** the University does not take on responsibility for wrong or late communication of addresses, nor for any communication problem not depending on the University.

**Evaluation**

Up to 100 points, specifically:
For qualifications, publications and possible tests, from 0 to 60;
For interview, from 0 to 40.

Selection procedure
The interview will be held in any case on 21/02/2019, h. 14,30 (Central European Summer Time) at the Department of Environmental Sciences, Informatics and Statistics, Ca’ Foscari University of Venice, - Scientific Center, Zeta Building - floor 1 - Prof. Salvatore Orlando office, Via Torino, 155 – Mestre (Venice).
The short-list of the candidates admitted to the interview will be available on 21/02/2019, h. 12,00 (Central European Summer Time) at the office Prof. Salvatore Orlando before the interview. Any postponement, will be published on the University’s webpage (link).

Candidates will be required to demonstrate the following skills, knowledge and expertise:

<table>
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<th>The interview:</th>
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<td>- The interview will evaluate the candidate’s knowledge on topics of modeling and</td>
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<td>management of mobility data. Moreover, the interview will assess the candidate’s</td>
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<td>background on machine learn and/or learning-to-rank, also with aspects related to</td>
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<td>application.</td>
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<td>- Good knowledge of English;</td>
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<td>- Good knowledge of Italian (in case of foreign candidates).</td>
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Candidates living farther than 200 Kms from Venice may ask to hold a telematic interview.

Information and contacts
Candidates may find further details about the application process and the research project in the official call published on the following (link)
For further information please contact Prof. Salvatore Orlando – orlando@unive.it

Rep. 79/2019
Prot. 2800/III-13
Venice, 18/01/2019

Il Direttore del Dipartimento di
Scienze Ambientali, Informatica e Statistica
Prof. Antonio Marcomini