

Announcement of Selection nr. 18/16 Publication date 02 November 2016

1 Research fellow position in H2020 Heracles research project.

In the framework of the H2020 project RIA, HERitage Resilience Against CLimate Events on Site, “HERACLES”, one research fellow position is available at the INSTM Research Unit of Rome Tor Vergata, Department of Enterprise Engineering University of Rome Tor Vergata

Project: Tests and characterization on traditional and innovative mortars for historical masonries and buildings.

The main activities of the project will be focused on the characterization of the mortars that have been used for restoration of the historical sites chosen for the project (Knossos palace and coastal Venetian fortification in Crete, Greece and historical town of Gubbio, Italy). X-ray diffraction (XRD) tests, scanning electron microscope (SEM) observations and energy dispersion analysis (EDS) will be performed on samples coming from the three sites. Moreover, the performances of the innovative materials produced by the Heracles partners will be assessed. In addition to XRD, SEM and EDS of consolidated mortars, a rheological analysis will be carried out on fresh products by shear stress-shear rate curves in order to provide the correct processing procedure for preparation of mortar. Finally, the coefficient of thermal expansion (CTE) of the new consolidated mortars will be measured by Dynamic Mechanical Analyzer (DMA). The mortars should have a CTE comparable to that of the stone to be restored so as to reduce the crack formations induced by seasonal thermal cycles.

The research will be carried out on behalf of CVR S.r.l. of which INSTM is a third party within Heracles project.

Scientific Responsible: Giampiero Montesperelli

Our Offer: the position is for “Ricercatore Junior 2. The monthly gross salary will be about 1.805,00 € . The health insurance is covered by the social security system.

Starting date and duration: approx. December 2016. Duration 6 months

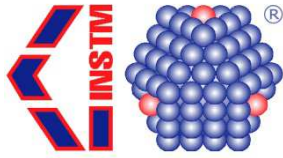
Your profile: Experience with materials characterization with SEM-EDS, XRD, DMA, digital image processing and rheology.

Deadline: 12 November 2016

How to apply: Please submit your motivation letter + detailed CV by e-mail to the scientific coordinator of the HERACLES project, Prof. Giampiero Montesperelli, montesperelli@stc.uniroma2.it and to the INSTM administrative office, segreteria@instm.it .

Please quote the Announcement number in the e-mail subject.

INSTM, in its sole judgment, reserves the right not to hire somebody, should the applications received, being unsuitable against the subject of the announcement or the expertise needed.



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In any case, INSTM, based on actual needs, convenience or opportunity, in its sole judgment and without notification, reserves the right not to open the position.

In order to comply with Italian law (art. 23 of Privacy Law of the Italian Legislative Decree n. 196/03), the candidate is kindly asked to give his/her consent to allow Consorzio INSTM to process his/her personal data.

We inform you that the information you provide will be solely used for the purpose of assessing your professional profile to meet the requirements of Consorzio INSTM. Your data will be processed by Consorzio INSTM, with its headquarters in Florence, Via Giusti 9, acting as the Data Holder, using computer and paper-based means, observing the rules on the protection of personal data, including those relating to the security of data. Please also note that, pursuant to art.7 of Legislative Decree 196/2003, you may exercise your rights at any time as a party concerned by contacting the Data Manager.