

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 2 EXPERIENCED GRANTS FOR CONDUCTING RESEARCH PURSUANT TO ART. 22 OF LAW NO. 240/2010 AT THE DEPARTMENTS OF UNIVERSITY OF BERGAMO - PICA CODE 20AR026

announced with decree of the Chancellor Rep. no. 560/2020 of 06.11.2020 and posted on the official registry of the University on 13.11.2020

RESEARCH PROJECT - CODE N. 1

“Development of sustainable, integrated and prefabricated techniques for the energy and structural retrofit of existing buildings”

Research structure: Department of Engineering and Applied Sciences

Duration of the grant: 24 months

Scientific Area: 08 - Civil engineering and architecture

Academic recruitment field: 08/B3 – Structural Engineering

Academic discipline: ICAR/09 - Structural Engineering

Scientific Director: Prof. Alessandra MARINI

The concept of Smart Living aimed at the physical and psychological well-being of the individual cannot ignore the sense of safety and healthiness connected to the structural stability of the place where he lives. As part of the SCC Innovation Hub & Living Lab Network project, the research assistant will take care of the structural safety of the Living Lab, which is in charge of DISA. In particular, he/she will carry out the feasibility studies for the definition of the integrated architectural-energetic-structural retrofit and the design of the seismic intervention. The intervention will involve the use of innovative construction methods and processes developed in accordance to Life Cycle Thinking principles; it will ensure the minimum impact of the works on the daily life of the tenant and adjacent houses, adopt prefabricated techniques, be easily repairable and easily recyclable at the end of life. The system will provide a thin shell made of XLAM wood panels or similar, mutually connected along the contour and to the existing structure and coupled with an insulating coating. The research assistant will deal with the design of the system, the simplification of the assembly processes and the standardization of the structural connections of the new envelope to the existing building in order to improve the monitoring of damage in case of earthquake.

RESEARCH PROJECT - CODE N. 2

"The mark of the mental and explanatory models in cognitive sciences"

Research structure: Department of Letters, philosophy, communication

Duration of the grant: 24 months

Scientific Area: 11 - History, philosophy, pedagogy and psychology

Academic recruitment field: 11/C4 - Aesthetics and philosophy of languages

Academic discipline: M-FIL/05 - Philosophy and theory of language

Scientific Director: Prof. Alfredo PATERNOSTER

The PRIN research Project "The Mark of the Mental" (MOM) aims to explore the venerable question of what makes it the case that mental events, states, and properties are mental. The Project comprises four research units, and among them the Bergamo unit focuses on two aspects:

1) phenomenal consciousness and intentionality as the mark of the mental, in relation to the ontology and the practice of cognitive science, including neuroscience.

2) Secondly, we want to explore the relationship between the 'philosophical' candidates to be the mark of the mental examined in a) and b), and a further 'cognitive' proposal according to which something is mental iff it plays a relevant explanatory role for behaviour.

On this background, the research fellow ("assegnista") is expected to contribute to the realization of points 1 and 2, also giving support to the organization of the scheduled activities. In particular the research fellow will have to assess the relevance for the theme of the project of neuroscientific data and of the recent reflection in the philosophy of neuroscience, considered in their relationship with philosophical and psychological explanations.