

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 4 EXPERIENCED GRANTS FOR CONDUCTING RESEARCH PURSUANT TO ART. 22 OF LAW NO. 240/2010 LASTING 12 MONTHS FOR A.D. IUS/10 (ADMINISTRATIVE LAW), M-PSI/07 (DYNAMIC PSYCHOLOGY) AND M-FIL/02 (LOGIC AND PHILOSOPHY OF SCIENCE), SPS/07 (GENERAL SOCIOLOGY), ICAR/09 (STRUCTURAL ENGINEERING) AT THE DEPARTMENTS OF UNIVERSITY OF BERGAMO

PICA CODE: 20AR004

announced with decree of the Chancellor Rep. no. 181/2021 of 06.04.2021 and posted on the official registry of the University on 14.04.2021

RESEARCH PROJECT - CODE N. 1

"Legal aspects related to the processing of personal and sensitive data related to the use of technologies for the monitoring and collection of data in the socio-health field"

Research structure: Department of Human and social sciences

Duration of the grant: 12 months

Scientific Area: 12 - Law studies

Academic recruitment field: 12/D1 - Administrative Law

Academic discipline: IUS/10 - Administrative law

Scientific Director: Prof. Saul Monzani

The aim of the project is to investigate the legal and juridical aspects concerning the processing of sensitive health data collected through sensors and apps.

In particular, this issue must be analyzed taking into account the provisions of EU Regulation no. 679/2016 and the Privacy Code referred to in Legislative Decree no. 196/2003 and subsequent amendments, as well as the regulatory framework determined by the provisions issued by the Privacy Authority as well as the European and national jurisprudence intervened on the matter in general and on the specific profile, in particular.

The research will have to identify the legal, regulatory and jurisprudential framework within which to place the legitimate treatment of health data, in terms of the rights of the data subject, the characteristics of the treatment process, the security measures and the guarantees to be ensured. with respect to the processing, storage and communication of the data collected, as well as in terms of the liability regime to which the persons responsible for the processing itself are subjected.

RESEARCH PROJECT - CODE N. 2

"Epistemological and philosophical impacts (dispositives, attractors, complex dynamical systems) concerning the relationship between technology and urban systems"

Research structure: Department of Human and social sciences

Duration of the grant: 12 months

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

Academic recruitment field: 11/E4 - Clinical and dynamic psychology; 11/C2 - Logic, history and philosophy of science

Academic discipline: M-PSI/07 - Dynamic psychology; M-FIL/02 - Logic and philosophy of science

Scientific Director: Prof. Gianluca Bocchi

Human systems should be considered as dynamical open and non-linear systems, which continuously evolve and co-evolve together. Connections and interactions between component parts of the relevant systems, between these systems, between these systems and their respective environments always retroact on the whole web of actors, and the story of the reciprocal interactions and mutual developments defines a field of global constraints, the so-called epigenetic landscape. The study of cities and towns can produce a paradigmatic case of this approach to human systems as complex systems. Urban systems are made up by a lot of subsystems (human, artificial, natural subsystems), which shape and modify the environment where they are situated: furthermore, the resulting retroactions always modify territorial visions, produced actions, new interactions between human systems. The consequent transformations are truly wide-ranging and multifarious, concerning architectonic and urbanistic models, individual and group behaviours, social relationship and organizations, cultural patterns, and so on. Which are psychological and social impacts when innovative technologies are introduced in an urban framework, and in human contexts that are parts of an urban framework? Which epistemological and philosophical consequences can be observed in our contemporary world, when we study the impacts of new technologies in urban systems? Which constraints and which opportunities we can suppose when observing technological and societal novelties in the framework of smart cities (we intend to base our research on Foucault's concept of dispositives). These are the basic questions we intend to ask and to investigate about in our researches.

RESEARCH PROJECT - CODE N. 3

"Migrant population and mental health services network"

Research structure: Department of Human and social sciences

Duration of the grant: 12 months

Scientific Area: 14 - Political and social sciences

Academic recruitment field: 14/C1 - General sociology

Academic discipline: SPS/07 - General sociology

Scientific Director: Prof. Stefano Tomelleri

The project is aimed at establishing an integrated network of services that guarantee effective access to treatment, rehabilitation and social assistance programs for migrants with mental health disorders. The project also proposes to collaborate in the constitution of a territorial governance of mental health services in which administrators and operators participate, sharing languages, good practices, multidisciplinary knowledge. The project involves several phases: first of all, the recognition of the needs expressed by the administrators and operators of the services operating in the mental health sector for the migrant population and the mapping of the resources available in the area. Secondly, multidisciplinary teams will be set up on a territorial basis in which public and private operators from the health, socio-health and educational areas will participate; the establishment of multidisciplinary teams will be able to incentivize access to mental health services for the migrant population, to maintain monitoring of care, rehabilitation and social assistance paths and to develop permanent management practices for frailties. The teams will participate in a training course, which provides for the sharing of ethno-clinical, social and cultural mediation knowledge, also in light of the detection of the need, which emerged from the previous analytical research. At the end of the training course, a second analytical survey will be carried out, able to estimate the changes that have occurred in the network of mental health services and in operating practices and to evaluate the effective implementation of social inclusion paths for migrants suffering from health disorders.

RESEARCH PROJECT - CODE N. 4

“Application 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: 12 months

Scientific Area: 08 - Civil engineering and architecture

Academic recruitment field: 08/B3 - Structural engineering

Academic discipline: ICAR/09 - Structural engineering

Scientific Director: Prof.ssa Alessandra Marini

The concept of Smart Living targeting the 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 assessment of the structural safety of the UniBG Living Lab as well as of the conceptual design of the seismic mitigation measures, which are in charge of the Department of Engineering and Applied Science. In particular, he/she will carry out the feasibility studies for the conceptual design of the integrated architectural-energetic-structural retrofit and the schematic 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 retrofit structure consists of a thin shell made of XLAM wood panels, mutually connected along the contour and to the existing structure, coupled with an insulating coating and implementing personalized finishes. The research assistant will deal with the conceptual design of the system, 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, and with compliance with LCT principles and criteria.