

PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 4 GRANTS LASTING 12 MONTHS FOR CONDUCTING RESEARCH IN ACCORDANCE WITH ART. 22 OF LAW OF 30.12.2010 NO. 240 AT THE GITT - CENTRE ON INNOVATION MANAGEMENT AND TECHNOLOGY TRANSFER OF THE UNIVERSITY OF BERGAMO AS PART OF THE PLAN FOR EXTRAORDINARY RESEARCH CALLED RES INNOVA, ON THE FUND GITTBARARES17 – (CUP F12F17000040005).

announced with decree of the Rector Rep. no. 448/2017 of 11.08.2017 and posted on the official registry of the University on 11.08.2017

RESEARCH PROJECTS

Annex code 1

“Development of methods and tools for the valorization of university-based entrepreneurship.”

GITT - Centre on Innovation Management and Technology Transfer

Tutor: **Prof. Lucio Cassia**

Objective of the fetch program

The candidate will be involved within the domain of activities of the Vice-chancellor for Technology transfer and innovation of the University of Bergamo, prof. Sergio Cavalieri, on a research program entitled: “Development of methods and tools for the valorization of university-based entrepreneurship”.

Research Project

The phenomenon of the creation of innovative new ventures represents a potential engine of economic local development. Universities can play an important role both "internally" (by encouraging entrepreneurial initiatives of students and researchers) and "externally" (by favoring the transfer of knowledge and human capital through the creation of new businesses). The project aims primarily to systematize the understanding of multi-level concept of "innovation ecosystem" and the different types of roles that universities can play within them. This activity will be carried out through systematic analysis of the literature and critical analysis of international case studies (mainly in Europe). Secondly, the project will use the context of the University of Bergamo, and particularly the activities of Research and Technology Transfer, as a longitudinal case study. In this context, the project will focus on the proposal of a valorization model oriented to the support to business planning and to the consolidation of a network of academic mentors. In order to activate this model, the candidate will support the “Research and Technology Transfer” Service in the drafting of an internal process of accreditation of entrepreneurship initiatives and will focus periodically on auditing the University's research groups, developing educational workshops and suggesting dedicated meetings with investors to enhance the concept with a high Technology Readiness Level (TRL).

Particular attention will be devoted to the elaboration of a mapping and matchmaking platform, instrumental to the promotion of entrepreneurship inside and outside the University. Such platform will identify, qualify and select specific skills and resource profiles, thus facilitating academic entrepreneurs in the phases of fundraising and partner scouting.

Result of the search

The candidate will have to research leading to a written report.

Besides the literature review, data collection (of both primary and secondary data) will be pursued, investigating the local innovation ecosystem and the role of University; the output will be a suggestion of a working model of such ecosystem, with particular focus on entrepreneurship education and support activities.

“Communication of scientific research in the Public Engagement framework. Development of participatory methods for diffusion of research in Sciences and Humanities.”

GITT - Centre on Innovation Management and Technology Transfer

Tutor: **Prof. Rosanna Bonadei**

Objective of the fetch program

The applicant will be involved in a research group of the University of Bergamo, coordinated by Prof. Rossana Bonadei, in the specific research activity devoted to “Communication of scientific research in the Public Engagement framework. Development of participatory methods for diffusion of research in Sciences and Humanities”

Academic Field L-LIN/10 (English Literature), Area 10 - Academic Recruitment Field 10/L1.

Research Project

The project promoted under the Res Innova Ateneo initiative--consists of both individual and participatory work. It is aimed to recognize and to promote the cultural and conceptual import of the notion of “Third Mission” at the various levels of the local academic community (including students) with particular reference to Public Engagement, a concept currently being defined in a series of white papers made available to Italian Universities (Ministry of Education, ANVUR, EU), also in light of a far-reaching debate investing the whole academic world , both at the level of disciplinary areas and groups and of transversal networks (eg. ApeNet).

This first objective involves on the one hand the systematic collection and in-depth analysis of the literature and on another the selection and critical analysis of ad-hoc national and international practices and projects (mainly of European origin, viewed in a comparative perspective with respect to the state of the art so far developed by the University of Bergamo and the evaluation outcomes of reference activities.

The candidate will also be expected to operate in the specific context of the University of Bergamo in relation to the activities of the Research and Technology Transfer Office, and the Third Mission Coordination Committee specifically established by decree of the Rector as a support to Departments. In particular, the candidate will participate in the meetings organized by the Committee and actively work according to the needs expressed therein, assisting the interdepartmental work-group in the development of presentation profiles for Third mission-Public Engagement activities compiled by individual departments, with specific monitoring of profiles and editing of texts with a view to ensuring quality of description, clarity and effective communication.

Particular attention will be paid to the development of conceptual skills and specialized vocabulary, aimed at promoting culture in the humanities and the sciences. Such skills will be tested in participatory activities for teaching staff (auditing, seminars) and students (eg. Project culture, doctoral workshops). In order to improve competence and skills, the candidate will participate in education and training programs specifically tailored to reference areas, promoted at various levels on-site or off-site (Ministry of Education seminars, exhibitions, etc.).

Result of the search

The expected research outcome is the acquired ability to create and organize meetings and participatory initiatives that develop new sensitivity and sharpen the awareness of those subjects within the academic community who at various levels are called upon to support the University Public Engagement objectives and strategies for Third Mission (teachers, administrators, students). In this perspective, it is essential that candidates acquire an in-depth knowledge of reference literature- purposefully selected and collected- which should enable to acquire a solid conceptual basis and specific vocabulary, with a view to operating with communication modes and useful text proposals to support the presentation and dissemination of culture in the Humanities and the Sciences in terms of Public Engagement and in accordance with the nature and specific features expressed by University Departments.

“Methods and technologies for the management of data describing the university research and technology transfer activity.”

GITT - Centre on Innovation Management and Technology Transfer

Tutor: **Prof. Stefano Paraboschi**

Objective of the fetch program

The candidate will be part of the research group at University of Bergamo supervised by Professor Stefano Paraboschi and will work on the research topic ““Methods and technologies for the management of data describing the university research and technology transfer activity”. According to Italian laws, the activity will fall in the SSD (scientific domain) and SC (loosely, Career track) identified by codes ING-INF/05 and 09/H1, “Systems for information processing”.

Research Project.

The research aims to investigate what metrics and indicators can be used to make an assessment of the research and technology transfer produced by a university. The identification of the indicators must then be followed by the development of a computer tool that supports the application of these indicators to concrete cases, using as a reference domain the University of Bergamo. The research must be characterized by a high level of originality and should make use of state-of-the-art tools for the collection and processing of data. It is anticipated the need for approaches that combine skills in computer science and engineering, statistics, economics, with the consequent use of mathematical and data analysis tools. Particular attention should be paid to the problems of extraction and cleaning of data from various sources.

Result of the search

The outcome of the research will be a series of methods and techniques for the quantitative and qualitative analysis of scientific research production. The work will use advanced technologies and tools. The work will require to identify the adequate set of metrics and tools for the extraction and analysis of data in this domain, with data originating from several independent sources, with heterogeneous and semi-structured formats.

“Scouting, planning and realization of international projects of search”.

GITT - Centre on Innovation Management and Technology Transfer

Tutor: **Prof. Paolo Buonanno**

Objective of the fetch program

The candidate will be involved in the scientific team within the University of Bergamo coordinated by Prof. Paolo Buonanno in the research activity “European and International grants for research and innovation: development of procedures for grant scouting for funding opportunities, project development and management” Academic Discipline 13 Economics, academic recruitment field 13/A1 – Economics.

The research project aims to reach the purpose of a development of the scientific research activities planned in the 2017-2019 University Strategic Plan. Res Innova project aims to build and integrated system for research and technology transfer to be adopted by the University.

The main goal of the research project is to develop procedures and tools for the research of European and International grant opportunities for scientific research projects of professors and researchers within the University, taking into account the inter-sectoral and interdisciplinary issues and the dissemination among the European academic community. In addition, the research project aims to develop an analysis of the scientific expertise in the research groups at the University of Bergamo in order to identify and develop strategies to support the preparation of project ideas in line with scientific topics contained in funding programs (such as Horizon 2020, Life and Justice Program and other international Programs for research); elaborate strategies for the management support.

The planned activities also consist in collecting and processing data related to international research in order to monitor and evaluate the University’s performance to improve the internationality rate of the University of Bergamo.

Research Project.

The research area concerns the analysis of the main research funding lines in particular the EU program for funding research, Horizon 2020.

The activities are summarized as follows:

- Development of procedures and tools for scouting of international grants for research;
- Identification of areas, skills and interests of researches within University of Bergamo;
- Analysis and study of the structure of research European funding programs (among which the Horizon 2020 program);
- Study and elaboration of project ideas about scientific matters contained in the programs of financing;
- Analysis of the progress and development of the funded projects;
- Development of strategies for supporting the project management;
- Analysis and elaboration of scientific proposals according to topics described on work programmes and funding scheme;
- Data processing related to international research projects.