



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Area
Risorse Umane

Gestione carriere
e concorsi
Assegni di ricerca

CHANCELLOR'S DECREE

Data that can be deduced from the registration in the protocol:
Repertoire Number, Protocol Number, Title,
Class File Attachments and References

Object: Public selection based on qualifications and interview for the awarding of no. 3 Experienced grants for conducting research pursuant to art. 22 of law no. 240/2010 at the Departments of University of Bergamo - PICA code 22AR009

THE CHANCELLOR

GIVEN	Law No. 168 of 9 May 1989 laying down rules on the "Establishment of MIUR";
GIVEN	Law No. 240 of 30 December 2010 "Norms in terms of organization of universities, of academic personnel and their recruitment, as well as mandate to the Government to subsidize quality and efficiency of academic systems", in particular art. 22 on research grants;
GIVEN	the Statute of the University of Bergamo enacted with Chancellor's Decree Index No. 92/2012 of 16 February 2012;
GIVEN	the University's current Regulations for awarding grants for conducting research;
GIVEN	Ministerial Decree Prot. No. 102 of 09 March 2011, recorded at the Court of Auditors on 13 May 2011, which revalued the minimum gross annual amount of grants for conducting research;
GIVEN	Decree-Law No. 192 of 31 December 2014 "Extension of terms provided for by legislative provisions", converted, with amendments, by Law No. 11 of 27 February 2015 and, in particular, Art. 6 paragraph 2 bis which extended by two years the total duration of grants established under Art. 22 of Law No. 240/2010, taking it from four to six years;
Referring also to:	
	<ul style="list-style-type: none"> - the University's Code of Ethics issued with Chancellor's Decree. Prot. No. 14405/I/003 of 19.7.2011 and amended with Chancellor's Decree. Rep. No. 262/2018, Prot. No. 60030/I/003 of 12.4.2018; - the University's Regulations on research integrity and ethics, enacted with Chancellor's Decree Index No. 387/2016 of 18 July 2016; - the University's Patent Regulations enacted with Chancellor's Decree Index No. 390/2016 of 19 July 2016 and amended with Chancellor's Decree Index No. 158/2018 of 26 February 2018 and with Chancellor's Decree Index No. 421/2020, of 9.9.2020;
ACQUIRED	the resolutions of the Councils of the Structures involved which approved the annual research projects and resolved on the requirements for candidates' admission to the selection;
ASCERTAINED	the financial backing (tab. 1);

DECREES

Article 1 Call for public selection

3 public selections are launched based on qualifications and interview for the awarding of No. 3 grants for conducting research pursuant to Art. 22 of L. No. 240/2010 with a contract under private law at the research structures of the University of Bergamo as indicated hereafter:



COD E	TYP E	DEPARTMENT	DURA TION	ANNUAL GROSS AND FUNDS	TITLE	A.R.F.	A.D.	TUTOR
1	B	Management, information and production engineering (deliberation 21/01/2022)	12	€ 22.220,00 Research project PRIN 2020 prot. n. 20207C8T9M by title "ULTRA OPTYMAL - Urban Logistics and sustainable TRANsportation: OPTimization under uncerTainty and MACHine Learning" - code MAGG_F_21_RN_PRIN_ULTRAOPTYMAL_0001 - CUP F55F22000030001	<i>Optimization under uncertainty and machine learning methods for sustainable urban logistics problems</i>	01/A6 Operations research	MAT/09 Operations research	Prof. Tommaso LANDO since 28/06/2022; Prof.ssa Francesca MAGGIONI from 29/06/2022
2	B	Human and social sciences (deliberation 22/02/2022)	24	€ 28.200,00 Research project CARIPL0 by title "More than just numbers": disability data matter. A model and a device to support the inclusion of persons with disabilities" Found CARISUSBESIO22@* CUP F85F21006530007	<i>Research collection and study of existing statistical data on persons with disabilities, at regional and national and international level. Contribution to the development of a theoretical-methodological model for a complete and exhaustive collection of statistical data in the field</i>	11/D2 Methodologies of teaching, special education and educational research	M-PED/03 Methodologies of teaching and special education	Prof.ssa Serenella BESIO
3	A	Management (deliberation 25/01/2022 re-published grant with Call DR 210/2020 of 15.05.2020 concluded without candidates)	36	€ 24.216,00 Research project Ateneo STaRs (Supporting Talented Researchers) azione 1 - anno 2020 - 1°tranche CUP: F5419000980001	<i>Social impact as a driver for the innovation of business model, performance management, and accountability in nonprofit organizations</i>	13/B1 Business administration and accounting studies	SECS-P/07 Business administration and accounting studies	Prof.ssa Laura MARIANI

Each grant is paid to the contract holder in monthly instalments of equal amount.
The research projects are described in Annex A of this call constituting an integral part hereof.

Article 2 Requirements for admission to the selection

The selection procedure is open to **scholars in possession of a professional scientific curriculum suitable for conducting the scientific research provided for by this call, as well as of the following requirements:**



3rd cycle degree: PhD (see the following table).

The qualifications obtained abroad must be recognised as valid in the Italian territory.

As regards qualifications obtained abroad that have not already been recognised in Italy with formal procedure pursuant to the applicable laws, the Commission is competent to assess the equivalence – as to the nature, level and subject correspondence (degree cycle or CUN Area for PhD qualifications) – to the qualifications required by this call, for the sole purposes of admission to the present selection. As regards qualifications obtained abroad, required by the call for the purpose of admission to this selection, the applicant is required as follows:

- in the event of qualifications already recognised as valid in the Italian territory, to indicate in the application the details of the provision attesting the occurred recognition pursuant to the applicable laws;
- in the event of qualifications not yet recognised, **to annex to the application a certified copy of the statement of qualification equivalence**, issued by the competent Italian diplomatic and consular authorities abroad, and the certificate of the exams taken or the supplement degree.

In order to ensure the widest participation in the selection, the applicant who is not in possession of the above documentation can annex a copy of the qualification with a translation into Italian or English; the candidate will have to submit the above documents within the terms peremptorily established by the Office under penalty of exclusion.

In the event of qualifications not yet recognized, the candidate is admitted if selected and, if winner, prior to signing the contract, must submit the documents requested by the office within the terms peremptorily established.

- **knowledge of one or more foreign languages (see the following table).**

Moreover, the applicant is also required:

- **to be at least 18 years old;**
- **to be in possession of civil and political rights;**
- **to have no criminal convictions or ongoing criminal proceedings that would prevent, in accordance with the regulations in force, the establishment of an employment relationship.**

For admission to the selections referred to in art. 1 the following specific requirements are also required:

CODE	SPECIFIC REQUIREMENTS	LANGUAGE
1	PhD Area CUN 01 - Mathematics and informatics	English
2	PhD Area CUN 11 - History, philosophy, pedagogy and psychology	English
3	PhD Area CUN 13 - Economics and statistics	English

The selective procedure does not allow admittance to:

- those who have a degree of kinship or affinity, up to and including the fourth degree, with a professor from the relevant structure, or with the Chancellor, the General Manager or a member of the University's Board of Directors;
- those who have been holders, including any renewals, of research grants awarded pursuant to Art. 22 of Law No. 240/2010 for a period which, added to the duration of the contract provided for by this call, exceeds a total of six years, except for the period in which the grant was used in coincidence with the PhD within the maximum legal duration of the relevant course;



- those who were contracted as research fellow or fixed-term researcher as per ss. 22 and 24 of Law 240/2010 at the University of Bergamo or other Italian public, private or online Athenaeums, as well as any other Body indicated in para 1 of s. 22 of Law 240/2010 for a length of time which, if summed to the duration of the contract in this announcement, exceeds 12 years in total, albeit not consecutive; periods of time spent on maternity or sick leaves do not count to the purpose of the duration of the aforementioned relationships, in accordance with current Laws;

The applicant enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Magistrale (LM), PhD with study grant or medical specialisation in Italy or abroad can participate in the selection object hereof; should the applicant be the winner, the research grant will be awarded subject to withdrawal from studies or PhD study grant.

Pursuant to art. 22 paragraph 2 of Law 240/2010 can not be recipient of the grants the regular personnel at universities, institutions and public entities of research and experimentation, the Italian National Agency for new technologies, energy and sustainable economic development (ENEA) and the Italian Space Agency (ASI) and institutions whose scientific specialization diploma was recognised equivalent to a PhD pursuant to the fourth paragraph under article 74 of Presidential Decree of 11 July 1980, No. 382.

The holder of the grant can attend PhD courses whose subjects are related to the research activities connected with the grant, upon prior evaluation of the Structure of reference. However, the research grant is incompatible with the enjoyment of the PhD study grant.

These requirements must be met on the date of expiry of the deadline for submitting the application for the admission to this selection.

This Administration guarantees equality and equal opportunities between men and women as to access to employment and treatment at work.

Article 3

Exclusion from the procedure

The following reasons are causes of exclusion:

- lack of signature on the application form;
- lack of admission requirements as provided for by Art. 2;
- failure to meet the procedures for submitting the application as mentioned under the following Art. 4.

The applicant is admitted if selected; should additional investigations be necessary, the applicant must regularize his/her application within the time peremptorily established.

The Administration may decide to exclude the applicant from the selection launched with this call, at any time, by reasoned Chancellor's Decree.

Article 4

Terms and conditions for submitting application

Under penalty of exclusion applications for participation in the competition, along with the relevant qualifications held and the relevant scientific publications, shall be submitted online through the following online application procedure:

<https://pica.cineca.it/unibg/>

The candidate will be able to register and access the platform using the Public Digital Identity System (SPID - security level 2). In case the candidate does not have one, he or she can request it according to the procedure indicated on the website www.spid.gov.it. Alternatively, the candidate can register and log in using the credentials released directly by the PICA platform.

It is of utmost importance to provide a valid email address in order to enable the registration process on the electronic procedure.



Applicants shall upload all personal and professional data as requested by the application procedure; all documents must be uploaded in PDF format (.pdf). Each applicant can produce a maximum of no. 40 publications and a maximum of no. 40 other titles and qualifications.

Failure to comply with the online application procedure will result in exclusion of the applicant.

Prior to final submission, and within the given deadline for applications submission, the online application procedure allows to modify and save the inserted information in a draft copy.

Confirmation of final submission date will be certified by an automatic notification email.

Submissions after the given deadlines will not be accepted by the system, as the online application procedure won't be accessible.

Each application will be given a registration number. For all further communications, the registration number shall be quoted along with the code of the research grant competition.

The online application and the submission procedure must be completed by and no later than **12.00 (Italian time) on the thirtieth day** from the notice publication date on the University website. Should the indicated deadline fall on a non-business day, it shall be postponed no later than 12.00 (Italian time) of the next business day.

The submission of the online application must be completed and finalized:

- **no digital signature:** in this case the candidate have to download the pdf file of the application by the system; the PDF file shall not be modified in any way, it is to be printed, signed in original, scanned in a pdf file and uploaded again on the website;
- **sign the application on the server using ConFirma service:** in order to sign digitally the application it is necessary to have a hardware (e.g. smart card or USB with digital signature certificate issued by an approved certification body) compatible with ConFirma service; after signing, applicants can download the signed pdf application;
- **sign the application digitally on your PC:** In order to sign digitally the application it is necessary to have a hardware (e.g. smart card or USB with digital signature certificate issued by an approved certification body) and a software for digital signatures in order to create a pdf.p7m file from the pdf file downloaded from this site. The pdf.p7m file must be uploaded in the website again;
- **in case of submission of the application through SPID,** it will not be necessary to sign the application form as it is automatically acquired by the procedure.

The application must contain all the required data by the system and must be signed and accompanied by a valid identification document of the candidate, under penalty of exclusion.

For any technical problems, contact support through the link available in the footer <https://pica.cineca.it/unibg>.

Article 5 Admission application

The applicant, filling the application, must declare, under his/her own responsibility, pursuant to what provided for by Presidential Decree 445/2000 and following amendments and integrations, as follows:

- his/her citizenship;
- to possess the qualifications mentioned in the previous Art. 2, indicating the degree cycle/CUN Area of PhD, the date on which it was obtained, the Institute that issued it and the final vote/assessment achieved; the applicant with qualification(s) obtained abroad must declare to have obtained the relevant recognition indicating in the application the details of the provision or must annex the required documentation according to what specified hereby;
- to possess any other requirements as mentioned in Art. 2;
- to possess other qualifications useful for the assessment;
- to know the foreign language required by this call;
- in case of Italian citizenship: to be enrolled in the electoral lists, specifying the Municipality of belonging and possibly specifying the reasons for non-inclusion or cancellation from the same lists; in case of foreign citizenship: to possess civil and political rights in the Country of belonging or provenance, or the reasons for non-possession of the same;
- not to be excluded from the active political electorate;



- to have no criminal convictions, or declare possible convictions undergone, indicating the details of related sentences, and any pending criminal proceedings;
- to be/not to be a state employee, specifying to be/not to be a regular employee at Universities and other bodies as mentioned in Art. 22 of L. No. 240/2010;
- to have no degree of kinship or affinity, up to and including the fourth degree, with a professor from the relevant structure or with the Chancellor, the General Manager or a member of the University's Board of Directors;
- if enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Magistrale (LM), PhD with study grant or medical specialisation, in Italy or abroad, to be aware that, in the event
- of awarding of the grant, attendance at such courses and the use of the PhD study grant are incompatible with the holding of the contract;
- to hold research grants awarded pursuant to Art. 22 of Law No. 240/2010;
- to hold contracts as fixed-term researcher pursuant to Art. 24 of Law No. 240/2010;
- to have attended a PhD indicating the period, University, date on which the qualification was obtained, cycle, exact title of the course and CUN Area;
- period of enjoyment of any PhD study grant;
- address to which communications concerning this competition are to be sent; it is mandatory to indicate a personal e-mail address as well;
- possible request to conduct the interview via videoconference indicating the phone number and motivation.

In the application for participating in the competition, the applicant, pursuant to Law No. 104 of 5 February 1992, must specify any aid necessary in relation to his/her needs, as well as any need for additional time for the interview.

When submitting the application for participating in the selection, the applicant must annex the following documents:

1. a photocopy of the applicant's identity document in course of validity;
2. *curriculum vitae* in European format, dated and signed;
3. a list, signed by the applicant, of the publications and other research products, and other titles considered appropriate for the purposes of the selection such as specialisation degrees, certificates of attendance to postgraduate courses, obtained in Italy or abroad, contracts, study grant or research assignments both in Italy and abroad (cf. Annex B);
4. any publications, other research products or other titles that the candidate wishes to assert to the purpose of the procedure, numbered in progressive order matching the relating numbered list;
5. in the event of foreign applicant, it is necessary to annex: a copy of the residence permit (if the applicant is already in its possession).

As regards qualifications obtained abroad, for admission to the selection, the applicant is required as follows:

- if recognised as valid in the Italian territory, the applicant must indicate in the application the details of comparability/equivalence of the qualifications obtained abroad;
- if not recognised as valid in the Italian territory, the applicant must annex copy of the qualification obtained abroad (obligatory annex) with a declaration translated in Italian or in English language and a certified copy of the declaration of equivalent qualification (obligatory annex), issued by the competent Italian diplomatic and consular authorities abroad, with the certificate of the exams taken or the diploma supplement.

As regards all other qualifications obtained abroad which the applicant intends to provide for the selection as required by the call, it is necessary to annex to the application a copy of the qualifications. Each annex must be in PDF format and must not be larger than 30 MB.

Pursuant to Law No. 183/2011, the Administration cannot accept or request certificates, but only declarations in lieu of certifications or affidavits submitted in substitution of the actual certificates signed



by the applicant and submitted together with an unauthenticated photocopy of the applicant's valid identify document. The Administration has the right to carry out suitable controls on the truthfulness of the contents of the declarations in lieu pursuant to what provided for by Presidential Decree No. 445/2000.

The requirements and the qualifications must be owned on the date of the expiry of the call.

It is mandatory to indicate a personal e-mail address to which the communications concerning this selection will be sent. Any variation of said address must be promptly communicated to the Selections Office and Legal Management (Sevizio Assegni di ricerca).

Article 6 Examining Commission

The Examining Commission is appointed with Chancellor's decree, upon proposal of the Structure's Council, at the expiry of the deadline for submitting the application.

The Commission is authorized to carry out the on line procedure, in the understanding that such method can be adopted until the conclusion of the relevant works, guaranteeing the security and traceability of communications.

Article 7 Selection

During its first meeting, the Examining Commission will establish the assessment criteria and procedures explicitly, according to what provided for by the call, fixing a minimum score for admission to the interview.

The overall assessment is expressed in hundredths, as indicated hereafter:

- up to a maximum of 60 points for qualifications and scientific-professional curriculum; to that end, the following will be object of assessment:
 - graduation vote;
 - PhD (if not already provided for as requirement for admission);
 - specialisation degrees and certificates of attendance to postgraduate courses, obtained in Italy or abroad;
 - publications and other research products;
 - documented research activities – as long as the beginning date and duration of the activities are duly certified – carried out at the premises of public and private subjects with contracts, study grants or assignments, both in Italy and abroad;
- up to 40 points for the interview.

Within the context of its autonomy, the Commission can integrate the above, depending on the research project and on what provided for by this call.

In particular will be evaluated:

CODE	
1	Scientific publications on international journals. Documented research activities – as long as the beginning date and duration of the activities are duly certified – carried out at the premises of public and private subjects with contracts, study grants or assignments, both in Italy and abroad. Certificates of attendance to postgraduate courses and scientific conferences. International scientific collaborations and specific experiences in the field optimization under uncertainty and applications in machine learning.
2	Elements of the CV that make it possible to outline the adequacy of training, as well as the relevance and consistency of previous scientific-educational activities (including publications) with the sector identified by the project presented here. The scientific quality and editorial positioning of the publications presented for evaluation with particular reference to those relating to the issues of disability throughout the life span in the various participatory expressions in different contexts.
3	-



The applicants will be informed before the interview on the results of the assessment of the qualifications.

The Commission reserves the right to carry out the interview via videoconference, through the use of IT and digital tools, guaranteeing the adoption of technical solutions that ensure the publicity of the same, the identification of the participants, as well as the security of communications, and their traceability. Failed connection at the time established or late connection, unless due to force majeure, will be considered as a renunciation to participate in the selection.

During the interview, the Commission will verify the applicant's ability to cover the topics and themes related to the research project and his/her knowledge of at least one foreign language, according to what provided for by the call.

CODE	PROGRAMME OF THE INTERVIEW
1	The interview will assess: - the candidate's CV; - the candidate's knowledge on the topics of the project, in particular stochastic programming, distributionally robust optimization and applications in machine learning; - English skills. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates.
2	<ul style="list-style-type: none">• Models of disability, their epistemological correlates and their relationships with the individual life planning.• The expressions of disability over the life span, the theoretical-methodological issues related to the transition periods, with particular reference to the transition to adulthood and the related life areas (work, home, sexuality).• The fundamental guidelines of the Italian and European legislation in the disability sector; conventions and documents of international organizations.• The main types of disabilities and the implications of impairments in different life contexts, in particular for the consequences involved in terms of data collection, to outline the issue of the need for their disaggregation. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates.
3	Management and governance of nonprofit organizations; Fundamentals of performance measurement. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates.

The assessment of the knowledge of the foreign language (or foreign languages) as provided for by this call will be carried out during the selection according to the modalities established by the Commission.

The date and place of the interview will be communicated with at least a 20-day notice through a communication published on the website of University of Bergamo <http://www.unibg.it>, under the section "Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca" supervised by the Servizio Assegni di ricerca.

This notice is to all intents and purposes an official communication. Any changes related to the date of the interview will be communicated to the admitted applicants with at least a 20-day notice through the publication of a communication on the University's website under the section "Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca".

Failure to show up at the interview will be considered as a renunciation to participate in the competition for all practical purposes.

At the end of the works, the Commission draws up the list of the applicants examined, indicating the votes obtained during the interview.

The Commission will draft the merit list in descending order according to the overall final score, which is obtained by adding the score of the qualifications and the score of the interview.

Applicants will be inserted in the merit list if they obtain at least 30 out of the 40 points available for the interview.



In the event of equal score, the PhD or equivalent qualification obtained abroad will constitute a preferential qualification, if not required for admission; in the event of equal merit, the younger applicant will be preferred.

The merit list is approved, under the condition precedent of verifying the requirements provided for by the call, with Chancellor's Decree and published on the website under the section "*Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca*". The term for submitting any appeals will run from the date of publication.

Should the winning applicant renounce to or withdrawal from the contract, the grant can be awarded to successful applicants according to the order of the merit list, upon prior resolution of the Research Structure.

Article 8

Signing of the contract and withdrawal

The winning applicant, in possession of the mentioned requirements, will sign an autonomous work contract under private law with effect, normally, on the first day of the month following the month in which the acts are approved.

As regards foreign applicants needing a residence permit, the date of beginning of the contract will be postponed and subject to the completion of the issuing procedure of said permit.

In the event of admission with reservation for qualifications obtained abroad not recognized as valid in the Italian territory, the winner, prior to signing the contract must submit the documents requested by the office within the terms peremptorily established.

The winner of the selection, convoked by the Administrative Office to sign the contract, will lose the right to the grant for collaboration in research activities if he/she does not state to accept the contract or does not begin the activity within the established term, without prejudice to health reasons or causes of force majeure duly and promptly documented.

Each grant as mentioned under Art. 1 can be renewed, under the terms and conditions provided for by the above mentioned Regulations; in any case, the relationship established pursuant to Art. 22 of Law No. 240/2010, including the possible renewal, cannot last more than six years, including the possible renewal, with the exclusion of the period in which the grant was used in coincidence with the PhD within the maximum limit of the legal duration of the relevant course.

Article 9

Rights and obligations of the grant holder

The employment relationship is governed by an individual contract, according to what provided for by the applicable laws and by the University's Regulations.

The research activity is flexible, it has a continuous nature, not merely occasional, and is carried out under the leadership of the Scientific Director, with autonomous conditions as to the research programme and its realisation, without any predetermined working hours.

The grant holder must refer to the Research structure that requested the activation of the contract.

The research activity of the grant holder is carried out within the context of the relevant Structure and in other Structures of the University on the basis of the research programme. Any research activities conducted outside of the University must be approved by the Council of the Research structure.

A period of permanence abroad is allowed at one or more qualified universities or research institutes, upon prior authorisation of the Council of the Research structure. During the period spent abroad, the amount of the grant will be increased by fifty percent to be charged to the Structure of reference or to the funds assigned to the Research structure.

The grant holder can participate in all the activities programmed by the Research structure for the promotion of researches and the dissemination of relevant results; he/she can be a member of the profit exams commissions, in quality of expert.

The Research structure must provide the grant holder all necessary support for realising his/her research programme, guaranteeing access to the equipment, the necessary resources and the use of the technical-administrative services.



The grant holder must comply with what provided for by the University's applicable Regulations on research integrity and ethics.

The winner of the selection who is entitled to the grant, at the time of the signature of the individual contract, should be committed, under penalty of forfeiture of the right to the research grant, to confidentiality and preventive transfer to the University of all intellectual property rights relating to the results produced and/or achieved during the research activities carried out at the University and she/he has the right to be recognized as the author of the his/her results achieved and/or products. The University recognizes the application of the same economic conditions that the University Patent Regulation grants to its Professors/Researchers.

Article 10

Taxes, welfare, insurance and mission

With reference to taxes, the grants are subject to what provided for under Art. 4 of Law No. 476/1984, while as regards welfare, they are subject to what provided for under Art. 2, paragraph 26 and following, of Law No. 335/1995, and following amendments. With reference to mandatory maternity leave, they are subject to what provided for by the Decree of the Ministry of Labour and Welfare of 12 July 2007, published in the Official Gazette No. 247 of 23 October 2007, and, as regards sickness leave, they are subject to what provided for by Art. 1, paragraph 788, of Law No. 296 of 27 December 2006, and following amendments.

In the period of mandatory maternity leave, the bonus paid by INPS pursuant to Art. 5 of the mentioned Decree of 12 July 2007 is integrated by the University up to the payment of the total amount of the research grant.

The University will cover the grant holder's accident insurance and civil liability toward third parties insurance within the scope of his/her research activity.

The covering of the grant holder's mission expenses is financed through the funds of the Scientific Director in charge or the Research structure, according to the modalities provided for by the University's regulations as to missions.

Article 11

Processing of personal data

In accordance with articles 13 and 14 of Regulation (EU) 2016/679 (GDPR), on the protection of personal data, and with D. Lgs. n. 196 /2003 and subsequent amendments, it is made known that data is controlled and managed by the legal representative of the University of Bergamo, via Salvecchio 19, - 24129 Bergamo.

Data will be collected exclusively for the present bid purposes and will be kept only for the necessary time to complete the relevant procedures. The data treatment controller will be appointed within the managing unit in charge of bidding procedure, who will carry out the treatment with all due respect of propriety, legitimacy, scope, transparency and confidentiality of the treatment; and data will be used exclusively for purposes connected to the selection and further conferment of the role and possible contract drafting, as well as management of the following employment position, in compliance with current regulations. Data will be kept for the necessary time to accomplish the selection purposes, subject to the application of norms on document retention, and will be transferred uniquely to public administration bodies directly concerned with the juridical and economic position of the selected applicant, treated in compliance with current regulations and used for personal, welfare, insurance and fiscal position management. Data will be handled by appointed staff through the acquisition of printed and electronic documents and using, even digitalised, filing procedures, to guarantee confidentiality; data treatment will be carried out through a coordinated organization and processing system, applying elevated safety standards. Furthermore, data will not be used for profiling. Applicants who have provided their personal data will be able to access it and exercise their rights as by art. 16 to 22 of GDPR UE 2016/679. Any safeguard request can be addressed to the University Data Protection Officer, who can be contacted through the university website (Privacy and Personal Data Protection section), e-mail dpo@unibg.it. In addition to the right of complaint which can be presented to the Italian Data Protection Authority, Piazza Venezia 11, 00187 Roma.



By presenting their application, candidates thereby authorise and fully consent to publication on the University institutional website of all information concerning the current bid, their own data and the contents of their CV in accordance with 111-bis of D.Lgs.196/2003 stating that, within the scope limits defined by art. 6, par. 1, letter b), of the Regulation, consent is not due for personal data present in a submitted CV.

Article 12

Person in charge of the procedure

The Person in charge of the selection procedure within this call is Dr. Domenico Panetta, manager of Area risorse umane, Via dei Caniana, 2 - 24127 Bergamo, phone (+39) 035 2052 669 - 583 - 878, e-mail address: assegni.ricerca@unibg.it.

Article 13

Publication

This call is published in the University's Official Registry, on the website of the Conference of the Italian University Chancellors (www.cru.it), on the website of the Ministry of Education, Research and University (MIUR) at the link <http://bandi.miur.it>, and on the website of the European Union at the link <http://ec.europa.eu/euraxess> in the form of a notice.

The full competition and related annexed forms are available on the website of the University of Bergamo www.unibg.it under the specially devoted section "*Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca*".

The call is also published on "Piattaforma Integrata Concorsi Atenei" (PICA) - link <http://pica.cineca.it/unibg/> from which it is possible to fill the application online for participation at the selection.

Article 14

Final provisions

For all matters not provided for by this call, the following will be applied: Law No. 240/2010 and following amendments and integrations, the University's Regulations on the awarding of research grants, the University's Regulations in force, and the Regulations on employment relationships in the public administration.

Bergamo, *as per protocol registration*

THE CHANCELLOR

(Prof. Sergio Cavalieri)

Documento firmato digitalmente ai sensi
dell'art. 24 del D. Lgs. 82/2005



ANNEX A

RESEARCH PROJECT - Code 1

“Optimization under uncertainty and machine learning methods for sustainable urban logistics problems”

Research structure: Department of Management, information and production engineering

Duration of the grant: 12 months

Scientific Area: 01 -Mathematics and informatics

Academic recruitment field: 01/A6 - Operations research

Academic discipline: MAT/09 - Operations research

Scientific Director: Prof. Tommaso LANDO since 28/06/2022; Prof.ssa Francesca MAGGIONI from 29/06/2022

Nowadays, most logistics activities are not environmentally sustainable. This aspect has received increasing attention from European governments and, by extension, from the involved business companies. Logistics service providers, responsible to plan these activities in urban areas, struggle to deal with tactical/operational problems and with the pressure coming from authorities' regulations. Providers must in fact operate by keeping

their costs as low as possible, filling the requirements for increasingly high service levels and fast deliveries, but also reducing their environmental footprint in terms of pollution, noise, and traffic congestion. Traditional optimization approaches have been almost exclusively focused on profitability objectives. Therefore, there is a need to develop new decision support tools in the area of sustainable logistics, with a special focus on the transportation activities that have a significant impact on the environment. In addition, in the last years a large amount of urban transportation data is increasingly becoming available enabling more informed off-line and real-time decisions.

The project deals with environmentally sustainable freight transportation and related logistics activities in urban areas. Goods deliveries, forward and reverse flows generated by e-commerce in the city, collection of recyclable material, and many other urban transportation activities require the definition of tours for the involved vehicles. All these operations are affected by a high degree of uncertainty, that in general disrupts the reliability of the solutions made by service providers through no robust planning. Uncertainties include vehicles travel times due to traffic congestion and accidents, service demand and the possible absence of the customers requiring the service. Accounting for such uncertainty dimensions is crucial to optimize decisions in the urban context. In these cases, Stochastic Optimization (SO) and Robust Optimization (RO) models lead to more reliable solutions. In this project, we will consider SO and RO approaches to solve several complex problems in the sustainable logistics context for urban distribution planning.

More specifically the problems addressed aim at developing new planning tools for freight delivery in urban areas. A first important activity will be to describe the uncertainty by developing a tractable traffic flow model and a customer demand model. Traffic flow models are usually not harmonized with modeling uncertain travel time in routing problems. By considering real data, we will adopt predictive approaches based on Deep Learning models to estimate short-term traffic flow.

This approach will allow modelling spatial and temporal correlations across the urban road network developing a tractable discrete stochastic time-dependent correlated travel times (STDCT) model, and an econometric model for uncertain customer demand (EMUD).

The second step will be to incorporate the STDCT/EMUD in an adapted path selection model tackling it in a stochastic solution framework integrated with machine learning in order to derive optimal strategies able to adapt to uncertain conditions. For this purpose, we will consider a number of objective functions: expected arrival time, mean-variance approach, and various time-consistent risk-measures where routes with high travel time variability will be penalized. A multi-objective path selection



model minimizing the total travel time along a path and CO₂e emissions will be also investigated. With respect to uncertain customer demand, we will study a risk-averse capacitated Vehicle routing problem (VRP) integrated with EMUD.

Another important research activity will regard the integration between SO with Machine Learning (ML) techniques. In particular, to efficiently develop SO models, the representation of the uncertainty in the form of scenario-tree is fundamental. To this end, the increasingly available spatio-temporal data coming from different sources in an urban context will be used to learn a suitable representation by using Deep Learning models. The second challenge posed by applying SO approaches is the associated computational burden. To this end the integration of reinforcement learning and multistage SO will be further investigated.



RESEARCH PROJECT – Code 2

“Research collection and study of existing statistical data on persons with disabilities, at regional and national and international level. Contribution to the development of a theoretical-methodological model for a complete and exhaustive collection of statistical data in the field”

Research structure: Department of Human and social sciences

Duration of the grant: 24 months

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

Academic recruitment field: 11/D2 - Methodologies of teaching, special education and educational research

Academic discipline: M-PED/03 - Methodologies of teaching and special education

Scientific Director: Prof.ssa Serenella BESIO

As part of the CARIPLO Research Project "More than just numbers": disability data matter. A model and a device to support the inclusion of persons with disabilities", the objectives of the project of this research fellowship will be:

- a) To conduct a critical analysis of existing statistics at national and international level on persons with disabilities, in order to identify positive and critical aspects;
- b) In collaboration with the research team, to develop and to validate a theoretical-methodological model for the analysis of the condition of disability, in accordance with existing rights-based models of disability, in order to manage a collection of data complete in a disaggregated form, capable of initiating innovative and inclusive 12 processes;
- c) In collaboration with the research team, to participate in the development and validation of a data-base management system related to the identified disability model.



RESEARCH PROJECT – Code 3

“Social impact as a driver for the innovation of business model, performance management, and accountability in nonprofit organizations”

Research structure: Department of Management

Duration of the grant: 36 months

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/B1 - Business administration and accounting studies

Academic discipline: SECS-P/07 - Business administration and accounting studies

Scientific Director: Prof.ssa Laura MARIANI

Social impact is the long-term effect of an organization's activities on both individual beneficiaries and their communities. In recent years, the measurement of social impact has become increasingly important for third sector organizations, and the production of reliable information on expected and past outcomes as well as the use of results-based effectiveness logics are, more and more often, necessary conditions for the access to public and private resources (Lumley et al., 2011). If on the one hand impact measurement creates several operational difficulties, on the other it opens up to new scenarios that can be investigated under the twofold intra-organizational and inter-organizational perspective.

With regard to the first perspective, this project aims to investigate whether and how the measurement of social impact is helping to innovate nonprofit organizations' business models, forging their performance measurement systems, and influencing the communication of to external actors – potential financiers in particular (Objective 1).

With reference to the second perspective, the research to be carried out aims to understand if and under which conditions social impact reporting affects individuals' decision making concerning donation, provision of financial resources, or purchasing behaviors toward nonprofit organizations (Objective 2).

The neo-institutional literature provides the theoretical framework for the project (Greenwood and Hinings 1996). In particular, a framework that integrates the notion of institutional work and emotional aspects, particularly relevant among third sector's actors, will be developed to pursue the first research objective. Legitimacy theory combined with literature relating to decision and cognitive styles will instead be used as a theoretical framework for the second research objective.

The objectives will be pursued simultaneously, according to the temporal scan described below and using two different methodologies.

Objective 1: Analysis of multiple case studies (12/14). The joint analysis of the cases will take place by adopting a configurational approach – Qualitative Comparative Analysis (Ragin 2000) – aimed at identifying the combinations of forms of institutional work and other organizational conditions that favor the orientation towards social impact.

Phase 1: Literature review and research framework development (6 months).

Phase 2: Selection of case studies and preliminary interviews (6 months).

Phase 3: Interviews and complete reconstruction of the selected case studies (18 months)

Phase 4: Data analysis and preparation of research outputs with presentation of the same at international conferences (9 months, partially overlapping with phase 3).

Objective 2: Experimental research design. In particular, artifactual survey experiments (Morton & Williams 2010) will be conducted with different categories of actors – potential donors and customers of social enterprises, in particular – aimed at verifying individual responses to different types of social impact reporting practices.



Phase 1: Literature review and research framework development (6 months).

Phase 2: Operationalization of the variables to be tested, design of the experiments, creation of the sample and of the mailing list. Pre-tests of each experiment and consequent adaptations (12 months).

Phase 3: Implementation of the experiments (9 months).

Phase 4: Data analysis and preparation of research outputs for international conferences (9 months).

From a theoretical point of view, the project will contribute:

- to the debate on social impact measurement in the third sector, with particular attention to the little-investigated topics of organizational learning and the response of financiers to different forms of impact communication;
- to develop the neo-institutional theory by widening the perspective of analysis to the role, rarely considered, of feelings and emotions of institutional workers.

From an empirical point of view, the project differs from previous works by helping to understand:

- what are the combinations of conditions that favor the assimilation of a social impact approach within nonprofit organizations' business models, measurement systems and reporting;
- how social impact communication can contribute to the fundraising process. The analysis will consider, in particular, the response of different categories of potential financiers to different stimuli.

From a methodological point of view, the project will use rarely used collection and analysis techniques. In fact, both the configuration analysis and the experimental research find little application in the context of nonprofit and impact measurement.

From a managerial perspective, the project will provide indications for the implementation of impact measurement systems and will encourage the spread of an impact-oriented managerial culture. At the same time, new evidence on the relationship between reporting and donor behavior can be used to support the development of new fundraising campaigns in nonprofit organizations.

The project will make it possible to strengthen UNIBG's internal expertise on the third sector and social impact and to strengthen collaborations with other scholars, both Italian and foreign, with whom the proposer is carrying out research activities.