

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. 7 Early stage grants, lasting 36 months, for conducting research pursuant to art. 22 of law no. 240/2010 at the Departments of University of Bergamo within the extended partnership PE9 – entitled “Growing Resilient Inclusive And Sustainable (GRINS)” funded by the National Plan of Recovery and Resilience (PNRR), Mission 4 “Educational and research” – Component 2 “From research to business” (CUP F83C22001720001) - Pica Code 22AR032

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;
GIVEN the D.L. No. 36/2022, converted, with amendments, into Law no. 79/2022, which in art. 14 paragraph 6-quaterdecies establishes that "for one hundred and eighty days following the entry into force of the decree conversion law, limited to the already programmed resources on the mentioned date, or approved by the respective governing structures within the mentioned term of one hundred and eighty days, universities [...] may call for awarding procedures of research grants pursuant to article 22 of law no. 240, in the current text before the entry into force of this decree conversion law";

Referring also to:

- 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;

WHEREAS as part of the public call for the intervention proposal for the creation of "Extended partnership to Universities, research centres, companies for the funding of basic research projects" – within the National Plan of Recovery and Resilience, Mission 4 "Educational and research" – Component 2 "From research to business" – Investment 1.3, funded by the European Union – NextGenerationEU (MUR Directorial Decree n. 341 of 15.03.2022), the University of Bergamo presented, in

partnership with the proposing entity University of Bologna, the extended partnership to area 9, Economic and financial sustainability of systems and territories – entitled “GRINS – Growing Resilient, INclusive and Sustainable”;

HAVING CONSIDERED that with MUR Directorial Decree n. 1243 of 02.08.2022 the results of the evaluations of the project proposals received in response to the Notice and with MUR Directorial Decree n. 1558 of 11.10.2022 the Extended partnership entitled “GRINS – Growing Resilient, INclusive and Sustainable” (project code: PE0000018) – UNIBG reference professor Silvio Vismara;

GIVEN that the funding recognized to the University of Bergamo is included in the budget of the Department of Management, as D.R. rep. n.1020/2022 of 31.10.2022 (U-GOV code: VISM_S_22_RN_MIUR_AL_GRINS_01, CUP F83C22001720001);

ACQUIRED the resolutions of the Councils of the Structures involved which approved the research projects and resolved on the requirements for candidates’ admission to the selection;

GIVEN the resolutions of Academic Senate of 14.11.2022 and of the Board of Directors of 15.11.2022 which approved the activation of the proposed research grants;

ASCERTAINED the financial backing (tab. 1);

HAVING REGARD to the proposal of the reference professor Prof. Silvio Vismara (prot. n. 197752 del 1.12.2022), who requested to extend, as indicated in the partnership, the call’s deadline beyond thirty days provided for by the University Regulations, in order to allow a greater possibility of visibility and participation in the call;

CONSIDERED to accept this proposal by providing that the call’s deadline is more than thirty days;

DECREES

Article 1 Call for public selection

7 public selections are launched based on qualifications and interview for the awarding of No. 7 grants, lasting 36 months, 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	ANNUAL GROSS AND FUNDS	TITLE	A.R.F.	A.D.	TUTOR
1	B	Economics (deliberation of 02.11.2022)	€ 24.216,00 Project PNRR PE9 “GRINS – Growing Resilient, Inclusive and Sustainable” – Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIUR_AL_GRINS_01 – CUP F83C22001720001	<i>Inequality, Human Capital, Labour Market and household sustainability</i>	13/A2 Economic policy	SECS-P/02 Economic policy	Prof.ssa Annalisa CRISTINI
2	B	Economics (deliberation of 02.11.2022)	€ 24.216,00 Project PNRR PE9 “GRINS – Growing Resilient, Inclusive and Sustainable” – Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIUR_AL_GRINS_01 – CUP F83C22001720001	<i>Socio-economic determinants of crime</i>	13/A1 Political economy	SECS-P/01 Political economy	Prof. Paolo BUONANN O

3	B	Economics (deliberation of 02.11.2022)	<p>€ 24.216,00 Project PNRR PE9 "GRINS - Growing Resilient, Inclusive and Sustainable" - Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIU R_AL_GRINS_01 - CUP F83C22001720001</p>	<p><i>Statistical harmonization of (Growing Resilient, INclusive and Sustainable) GRINS datasets</i></p>	13/D1 Statistics	SECS-S/02 Statistics for experimental and technological research	Prof. Francesco FINAZZI
4	B	Management (deliberation of 03.11.2022)	<p>€ 24.216,00 Project PNRR PE9 "GRINS - Growing Resilient, Inclusive and Sustainable" - Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIU R_AL_GRINS_01 - CUP F83C22001720001</p>	<p><i>PNRR "GRINS - Spoke: Ecosystems for the circular economy"</i></p>	13/D4 Economics and business management	SECS-S/06 Economics and business management	Prof.ssa Emanuela RONDI
5	B	Economics (deliberation of 02.11.2022)	<p>€ 24.216,00 Project PNRR PE9 "GRINS - Growing Resilient, Inclusive and Sustainable" - Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIU R_AL_GRINS_01 - CUP F83C22001720001</p>	<p><i>Sustainability ratings for fintech and retail investors</i></p>	13/D4 Mathematical methods of economics and actuarial and financial sciences	SECS-S/06 Mathematical methods of economics and actuarial and financial sciences	Prof. Gabriele TORRI
6	B	Management, information and production engineering (deliberation of 03.11.2022)	<p>€ 20.220,00 Project PNRR PE9 "GRINS - Growing Resilient, Inclusive and Sustainable" - Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIU R_AL_GRINS_01 - CUP F83C22001720001</p>	<p><i>GRINS - Growing Resilient, Inclusive and Sustainable. Innovation Ecosystem: Innovation of education and finance services for the development of sustainable Innovation ecosystems</i></p>	09/B3 Economic and management engineering	ING-IND/35 Economic and management engineering	Prof. Michele MEOLI
7	B	Management (deliberation of 03.11.2022)	<p>€ 24.216,00 Project PNRR PE9 "GRINS - Growing Resilient, Inclusive and Sustainable" - Budget of the Department of Management- project code UGOV VISM_S_22_RN_MIU R_AL_GRINS_01 - CUP F83C22001720001</p>	<p><i>Improving Public Sector Efficiency and Effectiveness to Foster Inclusive growth</i></p>	13/B1 Business	SECS-P/07 Business	Prof.ssa Mariafrancesca SICILIA

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:**

- **2nd cycle degree: Diploma di Laurea Specialistica (LS) or Laurea Magistrale (LM)** and equivalent qualifications, *or* **Diploma di Laurea (DL)** obtained according to the procedures preceding the entry into force of Ministerial Decree 509/1999 and following amendments and integrations and equivalent qualifications for admission to public competitions (**see the following table**).
- **knowledge of one or more foreign languages (see the following table).**

To establish the equivalence among **Diploma di Laurea (DL)** and **Diploma di Laurea Specialistica (LS) or Laurea Magistrale (LM)**, it is possible to refer to the following link:
<http://attiministeriali.miur.it/UserFiles/3160.pdf>

The Decrees that govern the equivalence among Italian academic qualifications for participating in public competitions are available at the following link:
<http://hubmiur.pubblica.istruzione.it/web/universita/equipollenze-titoli>

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) – 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, **must obligatorily attach to the application, under penalty of exclusion, one or more of the following documents:**
 - **a certified copy of the statement of qualification equivalence**, issued by the competent Italian diplomatic and consular authorities abroad;
 - **the diploma supplement or transcript of record**, legalized and written in Italian or in English;
 - **a copy of the qualification** with a translation into Italian or English.

In the event of qualifications not yet recognized, the candidate is admitted with reserve.

If the candidate turns out to be the winner, he must start the equivalence procedure above indicated, within the terms peremptorily established by the Administration following the approval degree, in order to sign the contract.

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	Diploma di Laurea Specialistica o Magistrale (ed equiparati) in Scienze dell'economia (classi LM-56 o 64/S) o laurea V.O.	English
2	Diploma di Laurea Specialistica o Magistrale (ed equiparati) o laurea V.O.	English
3	Diploma di Laurea Specialistica o Magistrale (ed equiparati) in LM-82 Scienze statistiche, 91/S Statistica economica, finanziaria ed attuariale, 90/S Statistica demografica e sociale, 48/S Metodi per l'analisi valutativa dei sistemi complessi, 92/S Statistica per la ricerca sperimentale; oppure in Ingegneria informatica (classi LM-32 o 35/S) o in Ingegneria gestionale (classi LM-31 o 34/S) o in Matematica (classi LM-40 o 45/S) o in LM-83 Scienze statistiche attuariali e finanziarie o laurea V.O.	English
4	Diploma di Laurea Specialistica o Magistrale (ed equiparati) o laurea V.O.	English and Italian
5	Diploma di Laurea Specialistica o Magistrale (ed equiparati) in Finanza (classi LM-16 o 19/S) o in 91/S Statistica economica, finanziaria ed attuariale o in Ingegneria gestionale (classi LM-31 o 34/S) o in Scienze dell'economia (classi LM-56 o 64/S) o in Scienze economico-aziendali (classi LM-77 o 84/S) o in LM-83 Scienze statistiche attuariali e finanziarie o laurea o V.O.	English
6	Diploma di Laurea Specialistica o Magistrale (ed equiparati) in Ingegneria gestionale (classi LM-31 o 34/S) o in Scienze dell'economia (classi LM-56 o 64/S) o in Scienze economico-aziendali (classi LM-77 o 84/S) o laurea V.O.	English
7	Diploma di Laurea Specialistica o Magistrale (ed equiparati) o laurea V.O.	English

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 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 cannot 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) of 16th March 2023.**

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

- **no digital signature:** in this case the candidate has 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).

For the abroad qualification, required for the purposes of selection admission, it's also necessary:

- 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 attach to the application **one or more of the following documents**: a certified copy of the statement of qualification equivalence, issued by the competent Italian diplomatic and consular authorities abroad; the diploma supplement or transcript of record, legalized and written in Italian or in English; a copy of the qualification with a translation into Italian or English.

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 (Servizio 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	/
2	Enrolment in a PhD or equivalent abroad in Area CUN 13 - Economics and Statistics
3	/
4	/
5	/
6	PhD in CUN Area 09 - Industrial and information engineering and 13 - Economics and Statistics. Research experience in the disciplinary fields of interest for the research projects, as documented by a track record of publications, with a preference for international publications.
7	/

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	Knowledge of the reference literature on the themes of the project Knowledge of causality techniques Knowledge of econometric-statistical software. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
2	Presentation of a representative research paper related to the theme of the project with relative discussion.

	The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
3	The interview will focus on assessing the candidates' knowledge in the areas of statistics and computer programming, and in particular: - Statistical modelling in general; - Geostatistical models and models for spatio-temporal data; - Programming in a statistical software environment. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
4	During the interview, in addition to attesting to knowledge of Italian and English, candidates will be asked to discuss the titles and publications submitted for evaluation. The motivation and adherence of the profiles to the research project will also be evaluated. Italian language knowledge for foreign candidates will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
5	The interview will analyse the competence regarding modern computer security technology. In particular, we will analyse the knowledge of these aspects in the field of technologies for the manipulation of big data, structured or not. The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
6	Innovation ecosystems Higher education systems, organizations, innovation (edtech) Innovation in the financial ecosystem: fintech services and institutions The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.
7	Public sector Management and Governance Performance measurement in the public sector The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission.

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.

The research fellow may participate in activities performed on behalf of third parties pursuant to art. 66 of Presidential Decree 382/80, in the context of issues related to its project, and the distribution of related proceeds, in accordance with the current University Regulations on the subject.

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

“Inequality, Human Capital, Labour Market and household sustainability”

Research structure: Department of Economics

Duration of the grant: 36 months

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/A2 - Economic policy

Academic discipline: SECS-P/02 - Economic policy

Scientific Director: Prof.ssa Annalisa Cristini

New forms of poverty and social inequality have developed in the last decade following the Great Recession and have intensified with the pandemic shock. The main themes that will be explored in the project concern: (i) the polarization of the labour market, due to the different relationship (substitutability or complementarity) that links new technologies and robotization on the one hand, and unskilled and skilled human capital, on the other; (ii) the ageing of the population and the social and economic vulnerability of low-income older households, even if they are homeowners; (iii) the challenge of the education system that must adapt quickly to the challenges raised by labour market and climate changes that modify the productive and financial activities of companies.

In order to promote sustainable growth, the aim is to increase household resilience to adverse shocks and prepare household members for structural changes. This research project focuses on the determinants and consequences of economic and social inequalities within and between households, with particular attention to the role of household's finance, education and employment situation.

The main objective of the project is the integration of different data sources (administrative and survey datasets) and the application of statistical-econometric methodologies for the identification of causal effects.

RESEARCH PROJECT - CODE 2

"Socio-economic determinants of crime"

Research structure: Department of Economics

Duration of the grant: 36 months

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/A1 - Political economy

Academic discipline: SECS-P/01 - Political economy

Scientific Director: Prof. Paolo Buonanno

The goal of the project is to set the basis for an articulated and detailed investigation of the links between crime and organized crime, social interactions and institutions. The final aim is to improve the understanding of the deep (long term) determinants of crime and organized crime, with a particular focus on the role history and culture and, subsequently, their connection with more proximate determinants (the "triggers") including most notably economic crisis, demographic patterns and immigration. The empirical analysis will be articulated at two (conceptually) different levels. First, we will study the determinants of several important socio-economic outcomes, like trust, social cohesion, ethnic-cultural diversity and political participation, which have been documented to matter for civil conflict and violence. Besides being interesting by itself, this part of the project is important both as a preliminary step and for deriving policy prescriptions on the reduction of violence in the long run by indirectly affecting its main co-factors. Second, a theory-driven econometric analysis based on data at the disaggregated and georeferenced level and machine learning techniques will study the determinants of conflict and crime focusing in particular on issues of reverse causality, omitted variables, clustering and spatial diffusion. These results will be relevant also to design policy interventions.

RESEARCH PROJECT - CODE 3

“Statistical harmonization of (Growing Resilient, INclusive and Sustainable) GRINS datasets”

Research structure: Department of Economics

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/D1 - Statistics

Academic discipline: SECS-S/02 - Statistics for experimental and technological research

Scientific Director: Prof. Francesco Finazzi

The research project is part of theme 9 (economic-financial sustainability of systems and territories) of the National Recovery and Resilience Plan. The research fellow will be called upon to harmonize spatially and temporally various data sources (with particular reference to environmental, climatic, weather and hydrogeological data) through methods and models for geostatistical data and space-time data existing in the literature. The implementation will take place in statistical software environments such as Matlab, R and Python, and the harmonization output will be provided to the AMELIA data platform developed in theme 9.

RESEARCH PROJECT - CODE 4

“PNRR “GRINS - Spoke: Ecosystems for the circular economy”

Research structure: Department of Management

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/D4 Economics and business management

Academic discipline: SECS-S/06 Economics and business management

Scientific Director: Prof.ssa Emanuela Rondi

The goal of the GRINS project is to make available to public and private actors, as well as to the national research system, a platform that is accessible and usable in real time, including as a meeting place and co-development of additional specialized platforms. The Partnership contributes to the construction of integrated repositories and platforms for analysing data from heterogeneous sources also and especially in real time. Spoke 5 - - Ecosystems for the Circular Economy is intended to contribute to the construction of integrated repositories and platforms for analysing data from heterogeneous sources also and especially in real time. Understanding how the main actors of innovation ecosystems can leverage innovation and new technologies to favour the transition of firms and territories to the circular economy (CE) paradigm. The focus will be on: i) the drivers and antecedents of CE innovations; ii) the conditions affecting their diffusion in the firms, sectors and regions; iii) the impact on resilience.

RESEARCH PROJECT - CODE 5

“Sustainability ratings for fintech and retail investors”

Research structure: Department of Economics

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/D4 - Mathematical methods of economics and actuarial and financial sciences

Academic discipline: SECS-S/06 - Mathematical methods of economics and actuarial and financial sciences

Scientific Director: Prof. Gabriele Torri

Sustainability is a growing concern in the financial industry, and the identification of standardized and reliable scoring systems to assess the environmental, social, and governance impact of a company (ESG) is high on the agenda of regulators and asset managers. This project aims at surveying and comparing different methodologies for the evaluation of sustainability of firms, with a particular focus to the analysis of small and medium enterprises (SME) and on methods based on artificial intelligence. Applications are mostly focused to the asset management and fintech industry and on the production of knowledge targeted to retail investors.

RESEARCH PROJECT - CODE 6

"GRINS - Growing Resilient, Inclusive and Sustainable. Innovation Ecosystem: Innovation of education and finance services for the development of sustainable Innovation ecosystems"

Research structure: Department of Management, information and production engineering

Scientific Area: 09 - Industrial and information engineering

Academic recruitment field: 09/B3 - Economic and management engineering

Academic discipline: ING-IND/35 - Economic and management engineering

Scientific Director: Prof. Michele Meoli

Within the "GRINS - Growing Resilient, Inclusive and Sustainable" project, funded as part of the Extended Partnerships of the PNRR, Line 9, the research unit of the University of Bergamo is active within the spoke "Innovation Ecosystem - Circular". In particular, the research unit develops the topic "Innovation of education and finance services for the development of sustainable Innovation ecosystems". The objective of this line of the project is to study the role of financial systems, and tertiary education systems, in attracting and developing the financial and human resources necessary to activate, enable and grow the ecosystem of innovation.

Within the knowledge-based economic systems, and today necessarily oriented to the green and digital transition, the various subjects of the innovation ecosystem, i.e., cities as communities, policy makers, companies and people, cooperate to co-operate create value and develop innovation for sustainable growth. This project emphasizes the role of educational institutions, the development of financial systems, and the interrelationships between the two.

On the one hand, the university system plays a fundamental role in supporting the transition to a sustainable innovation ecosystem. It helps create business leaders and policy makers with appropriate skills, competencies and awareness in relation to the challenges of the green and digital transition. On the other hand, financial institutions are also under pressure to finance innovative and sustainable projects. In both cases, technological innovations are leading to the development of innovative subjects (edtech in one case, fintech in the other), which play a pivotal role in the development and transformation of ecosystems. This project aims to map their presence in the Italian context, study their development conditions, as well as identify the conditions for participation in the development of innovation ecosystems as a whole.

RESEARCH PROJECT - CODE 7

"Improving Public Sector Efficiency and Effectiveness to Foster Inclusive growth"

Research structure: Department of Management

Scientific Area: 13 - Economics and statistics

Academic recruitment field: 13/B1 - Business

Academic discipline: SECS-P/07 - Business

Scientific Director: Prof.ssa Mariafrancesca Sicilia

Strong public sector institutions are essential for economic sustainability, as well as for the delivery of public goods and services that meets households' and firms' needs. Strengthening public sector organizations is fundamental over the medium-long term, especially in this juncture in which many external shocks (for example: the pandemics) are calling for a larger role of the State. The project contributes to foster more effective and efficient public sector and to increase government's capacity for an evidence-based approach to policy-making. The research deals with the functioning of the public sector and aims to provides new tools and data for measuring and enhancing the performance of public sector organizations, as well as for restoring citizens' trust in public institutions by reducing the misalignment between demand and supply of public services and improving the accountability of politicians.