



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. 9 Experienced grants for conducting research pursuant to art. 22 of law no. 240/2010 at the Departments of University of Bergamo - PICA code 22AR025**

## 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;
- 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 03.10.2022 and of the Board of Directors of 05.10.2022 which approved the activation of the proposed research grants;
- ASCERTAINED the financial backing (tab. 1);

## DECREES



## Article 1 Call for public selection

9 public selections are launched based on qualifications and interview for the awarding of No. 9 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 | TY PE | DURATI ON | DEPARTMENT                                                                   | ANNUAL GROSS AND FUNDS                                                                                                            | TITLE                                                                                                                                        | A.R.F.                                                          | A.D.                                                     | TUTOR                                   |
|-------|-------|-----------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| 1     | A     | 12 months | Engineering and applied sciences (deliberation 22.09.2022)                   | € 24.216,00<br>Research project STARS1921AZ1SR CUP F56C18000670001 budget Ateneo and dipartimentale DISARES I                     | <i>Corrosion of rebar for concrete realized with traditional and ecofriendly innovative binders</i>                                          | 09/D1<br>Materials science and technology                       | ING-IND/22<br>Materials science and technology           | Prof. Tommaso PASTORE                   |
| 2     | A     | 24 months | Engineering and applied sciences (deliberation 22.09.2022)                   | € 24.216,00<br>Research project STARS2022AZ1SR CUP F54I19000980001 Ateneo budget                                                  | <i>Impact of additive manufacturing on the aerothermal performance of aero-engine hot gas components</i>                                     | 09/C1<br>Fluid machinery, energy systems and power generation   | ING-IND/09<br>Energy systems and power generation        | Prof.ssa Giovanna BARIGOZZI             |
| 3     | A     | 12 months | Management, information and production engineering (deliberation 26.09.2022) | € 20.400,00<br>Research project STARS1718AZ1 CUP F52F16001350001 budget Ateneo and found KALCISP21 budget DIGIP                   | <i>Managing production sub-networks: an international study</i>                                                                              | 09/B3<br>Business and management engineering                    | ING-IND/35<br>Business and management engineering        | Prof. Matteo Giacomo Maria KALCHSCHMIDT |
| 4     | A     | 12 months | Management, information and production engineering (deliberation 26.09.2022) | € 24.216,00<br>Research project STARS2022AZ1SR CUP F54I19000980001 Ateneo budget                                                  | <i>Hyperlocal supply chains: analysis of the models and supporting decision-making processes</i>                                             | 09/B2<br>Industrial mechanical systems engineering              | ING-IND/17<br>Industrial mechanical systems engineering  | Prof. Roberto PINTO                     |
| 5     | A     | 12 months | Management, information and production engineering (deliberation 26.09.2022) | € 20.172,00<br>Research project STARS21AZ1JRDIP-CUP F59C20000390001 and Research project 60BARAS22 budget DIGIP                   | <i>Design of mechanical systems to operate in safe conditions in the healthcare sector</i>                                                   | 09/A3<br>Industrial design, machine construction and metallurgy | ING-IND/14<br>Mechanical design and machine construction | Prof. Sergio BARAGETTI                  |
| 6     | A     | 12 months | Law (deliberation 26.09.2022)                                                | € 24.216,00<br>Research project STARS1921AZ1SR e Budget del Dipartimento di Giurisprudenza code project 60DGIU2020 and 60DGIU2021 | <i>The protection of WHISTLEBLOWER pursuant to the Law of 30 November 2017, n. 179. The evolution of the phenomenon in a comparative key</i> | 12/B2<br>Labour law                                             | IUS/07<br>Labour law                                     | Prof.ssa Elena SIGNORINI                |
| 7     | A     | 12 months | Law (deliberation 26.09.2022)                                                | € 24.216,00<br>Research project STARS2022AZ1SR e Budget Dipartimento of Law Code project 60DGIU2020                               | <i>The economic dependence of companies in the modern market context: abuse and organizational structure of group companies</i>              | 12/B1<br>Business law                                           | IUS/04<br>Business law                                   | Prof. Vincenzo DE STASIO                |



|   |   |           |                                                               |                                                                            |                                                                                                                          |                                                                                            |                                          |                                    |
|---|---|-----------|---------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------|
| 8 | A | 12 months | Languages, literatures and cultures (deliberation 27/09/2022) | € 24.216,00<br>Research project<br>STARS2022AZ1SR -<br>CUP F54119000980001 | <i>Mapping Russian Formalism, or Towards a Theory of Cultural Translatability</i>                                        | 10/M2<br>Slavic studies                                                                    | L-LIN/21<br>Slavic studies               | Prof.ssa<br>Ornella<br>DISCACCIATI |
| 9 | A | 12 months | Letters, philosophy, communication (deliberation 20.09.2022)  | € 24.300,00<br>Research project<br>RESBALKANBRUN2224                       | <i>Popular protest in the Iraqi Kurdistan Region: Between elements of radicalisation and institutional strengthening</i> | 14/B2<br>History of international relations and of non-european societies and institutions | SPS/14<br>Asian history and institutions | Prof.<br>Michele<br>BRUNELLI       |

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).**
- **knowledge of one or more foreign languages (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 (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:

- in the event of qualifications already recognised as valid in the Italian territory, must 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 proceed with these indications:
1. Request the "Attestation of Comparability" from CIMEA (Academic Equivalence Mobility Information Center), by registering on the Centre's website through the following link:  
<https://cimea.diplo-me.eu/cimea/#/auth/login>  
It's candidate's responsibility to verify the documents for issuing the attestation.
  2. Apply to the University of Bergamo for the equalization of the training course and the release of the final parchment through the instructions published at the following link:  
<https://www.unibg.it/ricerca/lavorare-ricerca/dottorati-ricerca/iscrivarsi-dottorato>  
The University of Bergamo can recognize a PhD degree just in case of relevance to the ones already activated at the University of Bergamo. For the other PhD degrees offered by Italian Universities, refer to the link: <https://www.universitaly.it/index.php/public/cercaOffPL>.

In order to ensure the widest participation in the selection, the candidate with a qualification not yet recognised or with the recognition procedure in progress, **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    | PhD in Area CUN 09 - Industrial and information engineering                                              | English                                                                                     |
| 2    | PhD in Area CUN 09 - Industrial and information engineering                                              | English                                                                                     |
| 3    | PhD in Area CUN 09 - Industrial and information engineering or<br>Area CUN 13 - Economics and statistics | English                                                                                     |
| 4    | PhD in Area CUN 09 - Industrial and information engineering                                              | English                                                                                     |
| 5    | PhD in Area CUN 09 - Industrial and information engineering                                              | English                                                                                     |
| 6    | PhD in Area CUN 12 - Law studies                                                                         | English                                                                                     |
| 7    | PhD in Area CUN 12 - Law studies                                                                         | English                                                                                     |
| 8    | PhD in Area 10 - Antiquities, philology, literary studies, art history                                   | Italian and Russian (C2 level),<br>English (C1)                                             |
| 9    | PhD                                                                                                      | Italian (written and spoken)<br>English (written and spoken)<br>French (written and spoken) |

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 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](http://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 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 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 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    | PhD at the Macro sector 09/D - Chemical and materials engineering Educational Training of the research doctorate;<br>Graduation score and PhD thesis;<br>Authors/Coauthors of paper published in international indexed journals;<br>Relevance to the research project of the PhD thesis and technical / scientific publications;<br>Research activities at national and international Universities and qualified Research Institutes related to the project.                                                                              |
| 2    | Proven experience in experimental activities, also dealing with wind tunnel testing.<br>Proven aptitude for research, eventually supported by scientific production (journal papers, conference proceedings).                                                                                                                                                                                                                                                                                                                             |
| 3    | Visiting Period and other research activities at foreign Universities/research Institutes.<br>Previous research fellowship,<br>Collaboration with Research Institute.<br>Participation at International Conference.<br>Peer reviewed international Scientific Publications.                                                                                                                                                                                                                                                               |
| 4    | Experience related to the operation of distribution logistics systems, with particular reference to last mile distribution.<br>Experience related to digital technologies and related applications in logistics.                                                                                                                                                                                                                                                                                                                          |
| 5    | Final degree (Degree according to the Old Regulation, and post-graduate degrees according to the New Regulation): >105/110<br>Phd Thesis in SSD ING-IND/14 - Mechanical design and machine construction<br>Papers on international journals (topics: alloys with high strength-to-weight ratios, finite element modelling, FEM numerical simulation of dynamics)<br>Activities on healthcare sector<br>Speaker at national and international conferences<br>Participation to Summer schools and intensive courses<br>Research fellowships |





|          |                                                                                                                                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Tutoring/Exercises for Machine Design and Finite element modelling courses (SSD ING-IND/14-Mechanical design and machine construction)                                                                               |
| <b>6</b> | The Commission will assign a higher score to those who have a doctorate in labour law.                                                                                                                               |
| <b>7</b> | The Commission will assign a higher score to those who have a doctorate in commercial and business law and to those who have spent visiting research periods abroad at Universities or qualified research institutes |
| <b>8</b> | PhD in Slavic Studies. Specific training in Translations Studies. Participation in conferences, seminars and workshops as a speaker on issues concerning translation studies.<br>Organizational skills               |
| <b>9</b> | Activities on the field, direct knowledge on Iraqi situation                                                                                                                                                         |

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.

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | Corrosion and protection of rebar in concrete;<br>Chemistry and technology of cement and alternative binders;<br>Experimental methods for the characterization of fresh and hardened concretes and mortars. 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.                                                                                     |
| <b>2</b> | HP gas turbine cooling<br>aero-thermal performance of gas turbine film cooling<br>experimental techniques for aerodynamic and thermal investigation (LDV, HW, PIV, Thermocouples, IR Thermocamera, PSP)<br>Subject: Energy Systems, Turbomachinery, Aero and thermal measurement techniques.<br>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. |
| <b>3</b> | Description of previous experiences and competences in accordance to the topic of the research program.<br>Methods for analysing networks.<br>Ability to manage an empirical research by means of case studies, survey and data analysis.<br>Knowledge of english (basic knowledge of Italian in case of foreign citizen) 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.<br>Interest and motivation towards scientific activity and research.            |
| <b>4</b> | Distribution logistics and supply chain.<br>Last mile logistics.<br>Digital technologies in logistics.<br>Sustainability of logistics operations.<br>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.                                                                                                                                            |
| <b>5</b> | Machine design.<br>Computational mechanics in Structural Engineering.<br>Alloys with high strength-to-weight ratios.<br>FEM numerical simulation of dynamics.<br>Fatigue and corrosion.<br>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 | Discussion of publications, cultural profile of the candidate, aptitude for research with assessment of competence in the field of labor law and knowledge related to the interconnections between recent legislative measures and new regulatory models of the labor market. Assessment on the knowledge of the English language. Materia: Labor law<br>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 | Discussion of publications, cultural profile of the candidate, aptitude for research with assessment of competence in the field of commercial and business law and knowledge related to the corporate law of group and competition law. Assessment on the knowledge of the English language. Materia: Business law.<br>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.                                   |
| 8 | Russian Literature and Culture of XIX and XX century, Russian Formalism, knowledge of the required languages, deep knowledge of translation theories, experience in the field of translation. The interview will be conducted in Italian, Russian and English; 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.                                                                                                                                                                                                     |
| 9 | History and Institutions of the Islamic world; Radicalisation processes, violent extremism dynamics; Contemporary Political Theory, History of Political Thought<br>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 case of conditional admission for the achievement of an abroad qualification not recognized as valid in Italy, the winner, before signing the contract, must produce the required documentation 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](mailto: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](mailto: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](http://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](http://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

#### ***“Corrosion of rebar for concrete realized with traditional and ecofriendly innovative binders”***

**Research structure:** Department of Engineering and applied sciences

**Duration of the grant:** 12 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/D1 - Materials science and technology

**Academic discipline:** ING-IND/22- Materials science and technology

**Scientific Director:** Prof. Tommaso PASTORE

The project is based on the study of the electrochemical conditions of formation of the passive film on rebar in reinforced concrete structures and its resistance to corrosion. The study will be carried out on concretes made with traditional and innovative ecofriendly binders. Different mixtures will be made, with pozzolanic and aluminous binders and geopolymers; mixtures of these cements with different Portland percentages will also be studied. In these environments the resistance to corrosion of the reinforcement will be studied, as a function of the pH of the cement conglomerate, of its buffering power, of the carbonation rate and of diffusion kinetic of chloride ions inside it. The effect of corrosion inhibitors on the kinetics of the passive film formation and on its stability will also be evaluated, based on the ability to inhibit the corrosion initiation.



## RESEARCH PROJECT - CODE 2

### ***"Impact of additive manufacturing on the aerothermal performance of aero-engine hot gas components"***

**Research structure:** Department of Engineering and applied sciences

**Duration of the grant:** 24 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/C1 - Fluid machinery, energy systems and power generation

**Academic discipline:** ING-IND/09 - Energy systems and power generation

**Scientific Director:** Prof.ssa Giovanna BARIGOZZI

The application of turbogas engines to aircraft propulsion has been characterized by a constant increase in performance over time, aimed at saving fuel and reducing the environmental impact. Actually, the design optimization of hot gas path components plays an important role in the near and mid-term future development of modern aero-engines. More and more efficient cooling systems are required in order to increase the engine thermal efficiency and to reduce its pollutant emissions. The development of additive manufacturing (AM) techniques makes it possible to obtain advanced geometries and/or reduced time and costs. However, the adoption of AM techniques entails some drawbacks, mainly related to the fact that worse dimensional accuracies and surface finishing are achieved, with respect to traditional processes. Beyond a qualitative agreement on roughness-induced effects, no general consensus exists regarding how to treat and model different sources of roughness and its effect on the component's performance. Due to the strict safety requirements, the understanding and quantification of AM technique implications on the resulting component performance has gained a paramount importance, in the view of introducing this innovative manufacturing process in the aero-engine market.

Within this perspective, the proposed project aims at developing and characterizing experimentally cooled components for aero-engines, produced by AM. A thorough evaluation of AM technological implications on characteristics and performance of basic cooling devices will be achieved by means of the most advanced experimental techniques, including geometry scanning and aerothermal investigations. A wide database of wind tunnel experimental data will be constituted so as to support the development of correlations and the design of realistic components, to be tested at engine-like conditions. A detailed account of drawbacks and improvements achievable with the adoption of AM processes and innovative geometries will be obtained by the direct comparison with traditionally manufactured test samples.

The activity involves the following steps:

1. Literature survey to define the cooling hole geometry and to analyze the AM related technological problems. This activity will lead to the design of the hole geometry to be tested on a flat plate wind tunnel, manufactured varying the AM process parameters.
2. Morphological and aero-thermal characterization of the manufactured models. Experimental investigation of flat plate film cooling by means of the Pressure Sensitive Paints (PSP) technique, focusing on a single row of holes.
3. Data processing and data analysis in order to evaluate the impact of AM process parameters on film cooling performance.
4. Aerodynamic test with pressure gradients in a nozzle vane cascade with platform cooling for variable injection condition. Tests will be run as close as possible to engine condition, by means of an aerodynamic 5-hole pressure probe. Different roughness will be tested, to assess its influence on loss generation.
5. Thermal tests on the nozzle vane cascade with platform cooling: adiabatic film cooling effectiveness distribution on the cooled platform will be measured for variable injection condition and surface roughness, with the aim of assessing its influence on the thermal protection capability of the cooling scheme.
6. Final processing of the collected data and critical assessment of the aerodynamic and thermal performance of the tested models with drafting of the final report.



### RESEARCH PROJECT - CODE 3

#### ***“Managing production sub-networks: an international study”***

**Research structure:** Department of Management, information and production engineering

**Duration of the grant:** 12 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/B3 - Business and management engineering

**Academic discipline:** ING-IND/35 - Business and management engineering

**Scientific Director:** Prof. Matteo Giacomo Maria KALCHSCHMIDT

Multinational manufacturing companies produce different types of products using international production networks. These networks can have a vertical structure (production is divided according to the production process) or an horizontal structure (divided according to the market to be served). In addition, the diversity of products, for example, products with a high or low technological content, can be reflected in the way these networks are managed.

Compared to these different management methods, in 2016 Vereecke, Ferdows and De Meyer introduced the concept of sub-network, i. e. a grouping of production units characterized by a certain type of product/process. The result of this study shows how sub-networks that produce low-tech products are more subject to structural reviews (footloose sub-network).

Although the concept of sub-network may simplify the management activity of the entire network, the ways in which these sub-networks are managed have not yet been studied in depth.

The project therefore aims to study these sub-networks and the related management practices, such as the organisational structure, control and coordination mechanisms, the level of expertise required, operational integration practices and knowledge exchange.

Given the complexity and novelty of the theme, the research methodology chosen is that of case studies. In particular, a number of companies will be analysed at European level and the related foreign production plants within the sub-networks.

The project will therefore be divided into 3 phases for a total duration **of 24 months.**

Phase 1 - Systematic review of literature (4 months). In this phase, the most relevant articles will be collected for the identification of the different management variables of a sub-network. Where necessary, systematic literature review techniques will be applied, including a systematic search for articles, analysis of the citation network and main topics.

Phase 2 - Data collection (12 months). In this phase, the interview protocol will be defined and the companies to be contacted will be selected following the best methodological practices in the analysis of case studies. Firms will be interviewed in person or by telephone and all the information collected will be triangulated with information from secondary sources (reports, balance sheet data, presentations, etc.). If further data need to be collected, companies will be contacted for follow-up meetings.

Phase 3 - Analysis of results (10 months). The collected data will be coded in order to identify the differences and similarities between the cases and the different types of sub-network analysed. In this phase, best practices in the management of these networks will also be studied, with particular emphasis on the difference between footloose networks and other types of networks.

The project will also be supported by a dissemination phase of the duration of the entire project.

The aim is to produce at least 2 articles to be presented at the conference and then sent to international journals. A report will also be written for the participating companies. Finally, the results of the project will be disseminated through social networks and specialised websites.

All phases of this study will be conducted according to the principles of the highest scientific rigour to ensure results that advance the state of the art of knowledge.





## RESEARCH PROJECT - CODE 4

### ***"Hyperlocal supply chains: analysis of the models and supporting decision-making processes"***

**Research structure:** Department of Management, information and production engineering

**Duration of the grant:** 12 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/B2 - Industrial mechanical systems engineering

**Academic discipline:** ING-IND/17 - Industrial mechanical systems engineering

**Scientific Director:** Prof. Roberto PINTO

The objective of this research is to study the last mile distribution sector, with particular reference to the use of technologies to support hyperlocal supply chains. Although the pervasiveness of digital technologies makes it increasingly easy to have a presence in the online marketplace, at the same time this "virtual presence" must be supported by the company's "physical presence", understood as the company's ability to provide the service or supply the goods sold in the digital context.

Project summary:

1. Identification and definition of the characterising elements: definition of the state of the art in the hyperlocal supply chain sector (6-8 months).
2. Technology analysis: overview of the technologies - and related impacts - that can be adopted in the hyperlocal supply chains (10-12 months).
3. Decision-making processes analysis: definition of decision support processes and systems based on - or enabled by - technologies, with particular regard to the use of data for decision-making. (12 months).
4. Alignment of digital capabilities with the physical capabilities of the supply chain: definition of the alignment criteria both strategic and operational of the different capabilities of the company, also through the identification of best practices (8-10 months).



## RESEARCH PROJECT - CODE 5

### ***"Design of mechanical systems to operate in safe conditions in the healthcare sector"***

**Research structure:** Department of Management, information and production engineering

**Duration of the grant:** 12 months

**Scientific Area:** 09 - Industrial and information engineering

**Academic recruitment field:** 09/A3 - Industrial design, machine construction and metallurgy

**Academic discipline:** ING-IND/14 - Mechanical design and machine construction

**Scientific Director:** Prof. Sergio BARAGETTI

The Coronavirus pandemic has unfortunately underlined the need for solutions that drastically reduce the risk of contagion and allow healthcare personnel to operate in conditions of extreme safety. It is essential to avoid that the patient infects the healthcare operators and that they can transmit the disease to other patients.

However, COVID has accentuated some of the critical issues that healthcare professionals face daily. For example, the biological risk induced by needlestick injuries is one of the most important causes of disease among practitioners. Some safe devices are available although the spread is still partial. There is therefore a clear need for a greater contribution from scientific research on this topic, which involves various fields, from dentistry to medical-surgical specialties.

The importance of encouraging the introduction of safe devices is twofold. The first reason is related to the transmission mechanisms of diseases such as COVID-19, HIV and hepatitis. The second is linked to the operational context: the emergency induces operators to work in difficult and stressful conditions. Furthermore, in some situations, protective devices are required that make moving less easy.

Another critical situation for the ease of operations occurs inside the emergency vehicles. The urgency of transport in fact subjects the patient and the medical team on board to dynamic and vibratory loads due to the acceleration and deceleration phases experienced during the journey.

The proposed research activity concerns the design of engineering solutions that allow to operate in safe conditions for healthcare professionals and patients. The research therefore leads to industrial applications, on a territorial, national and international scale. In particular, the proposal of innovative solutions for safety syringes and emergency vehicles (ambulances) is envisaged, without excluding other possible fields of intervention. The activity will be divided into 2 phases:

Phase I: bibliographic research; search for previous patents; collection of information regarding the current conditions of use of the devices and the needs of healthcare professionals.

Phase II: Functional and constructive design of safe and economical mechanical systems through the methodology used in the design of innovative systems:

- 1) Theoretical modeling; first theoretical dimensioning and evaluation of orders of magnitude.
- 2) Numerical simulation with finite elements to refine the results.
- 3) Laboratory tests to confirm the results.

The three approaches will allow to validate the models and confirm the goodness of the new products. The study will also take into consideration all the typical aspects of mechanical design: Machine Design and Industrial Technical Drawing, Mechanical Technology, Materials Science, Structural Mechanics and Applied Machines.

In addition to the safety requirements, the designed components must be characterized by a high resistance to static and dynamic loads. During the design phase, the use of innovative materials and technologies will be evaluated in order to obtain high performance.



## RESEARCH PROJECT - CODE 6

### ***“The protection of WHISTLEBLOWER pursuant to the Law of 30 November 2017, n. 179. The evolution of the phenomenon in a comparative key”***

**Research structure:** Department of Law

**Duration of the grant:** 12 months

**Scientific Area:** 12 - Law studies

**Academic recruitment field:** 12/B2 - Labour law

**Academic discipline:** IUS/07 - Labour law

**Scientific Director:** Prof. ssa Eena SIGNORINI

The aim of the research project is to study the phenomenon of whistleblowing in light of the attention and the regulatory evolution that the same has had both in the private and public sphere, focusing specifically on the implications that its implementation entails on the organisational structures for companies following Directive (EU) 2019/1937. As is well known, the subject of reporting crimes and irregularities was made the subject of specific legislation contained in Law no. 179 of 2017, which enriched Article 6 of Legislative Decree no. 231 of 2001 with a special provision dedicated precisely to whistleblowing.

The project, after an initial two-year period dedicated to the identification of the regulatory framework within which this tool is used, which private sector companies (with an organisational model pursuant to Legislative Decree no. 231/2001) must also adopt, similarly to what is already provided for the public sector (pursuant to Article 54-bis, Legislative Decree no. 165/2001), intends to continue to study the phenomenon in the light of the new implications arising from the adoption of the directive.

The process of transposition of the directive has been troubled, in fact, as early as 2021, Article 23 of Delegated Law No. 53/2021 (Delegation to the Government for the transposition of European directives and the implementation of other acts of the European Union - European Delegation Law 2019-2020. (21G00063)) published in the OJ on 23 April 2021, contained the lines to be followed by the Italian Government in order to implement the aforementioned delegation, introducing important new elements compared to the regulations already issued in 2012 for the public sector and those of 2017 for the private sector.

Recently, the matter has been made the subject of Article 13 of Law No. 127 of 4 August 2022, containing the Delegation to the Government for the transposition of European directives and the implementation of other regulatory acts of the European Union, - European Delegation Law 2021.

Specifically, there are four implementing principles that the Government must adhere to in order to implement the delegation: (a) amend, in accordance with the rules of Directive (EU) 2019/1937, the existing legislation on the protection of the authors of reports of breaches referred to in Article 2 of the aforementioned Directive, of which they have become aware in the context of a public or private employment context, and of the persons referred to in Article 4(4) of the same Directive; (b) take care of the coordination with the provisions in force, ensuring a high degree of protection and safeguard of the persons referred to in point (a), making the necessary repeals and adopting the appropriate transitional provisions; (c) exercise the option provided for in Article 25(1) of Directive (EU) 2019/1937, which allows for the introduction or retention of the provisions more favourable to the rights of the persons who issued the alert and those indicated by the Directive, in order to ensure in any case the highest level of protection and safeguard of the same subjects d) make the appropriate adjustments to the provisions in force in order to bring the national legislation into line with the European legislation, also in relation to breaches of domestic law attributable to offences or misconduct that compromise the impartial care of the public interest or the regular organisation and management of the entity.

The system is designed to maintain an open and transparent society by allowing those who report wrongdoing and irregularities adequate protection against possible retaliation. Underlying the amendment is the need to harmonise the Italian system with other European regulations.

Therefore, in the light of the innovations resulting from the implementation of the enabling act, reflection should focus on the re-identification of the objective and subjective scope of operation (much broader at European level) of the protection, on the implementation of internal whistleblowing systems, on the reporting processes, on the identification of the quality and relevance of the report,



on the correlations between the right to report and the right to criticise, on the connections of reports with Articles 2104 and 2105 of the Civil Code.

The prescription of a new information channel, aimed at preventing offences, in our system is to be added to the system already provided for by the legislation on employment that contemplates the obligation to inform the supervisory body (Article 6, paragraph 2, letter d), Legislative Decree no. 231/01) in addition to the many mandatory means provided for by the sector legislation (e.g. the information obligations sanctioned, in the area of health and safety at work, by Articles 19 and 20 of Legislative Decree no. 81/2008 for supervisors and workers).

It will therefore be a matter of identifying the changes to the organisational and management structures that the new provisions contained in the enabling act will impose on employers, focusing on the relevance of maintaining a differentiation in the protection of whistleblowers between the public and private sectors in matters to which the European directive applies (whistleblowing of breaches of EU rules), which does not exist at European level.

From the study of the phenomenon should result, within the 12-month duration of the project, a scientific publication outlining the whistleblower protection system at a comparative as well as national level.

A seminar will also be organised to present the results of the research and what is being done to prevent and combat corruption, as well as to take stock of the position taken by case law on the subject.



## RESEARCH PROJECT - CODE 7

### ***“The economic dependence of companies in the modern market context: abuse and organizational structure of group companies”***

**Research structure:** Department of Law

**Duration of the grant:** 12 months

**Scientific Area:** 12 - Law studies

**Academic recruitment field:** 12/B1 - Business law

**Academic discipline:** IUS/04 - Business law

**Scientific Director:** Prof. Vincenzo DE STASIO

In our global economics, specialized and fragmented production processes require the integration of organizational structures of enterprises and it is increasingly frequent to use alternative forms instead of those based on controlling share and on commercial agreements (i.e. franchising, subcontracting). Even if this trend has undeniable advantages, it can lead to jeopardize the profitability and organizational efficiency of companies, by allocating all business risks to the subsidiaries and undermining the competitiveness of the entire economic system.

A first action is due to art. 9 L. 192/1998. This provision regulates the abusive exercise of the economic power guaranteed to parent companies through the contractual obligations imposed on other subsidiaries. The abuse of the state of dependence is now prohibited and, according to several interpreters, this rule is to be considered a general one in business relations. However, its effects have been studied so far considering only the contractual relationship and therefore giving significance to the so-called third contract (“B2B”) according to an atomistic point of view.

On the other hand, this phenomenon has to be seen in relation to the organizational structures of enterprises that are connected by contractual ties and in relation to the need of safeguarding their permanence in the market. Only in this way it is possible to give relevance to those conducts of parent companies that have the effect of producing for subsidiaries long term inefficient and unsustainable production processes, as well as determining an unjustified competitive advantage for parent companies, even if these conducts are not an abuse in the contractual relationship. Studies on economic dependence carried out from the perspective of competition law are well known. However, these studies have limited their investigations on the difference between the economic dependence and the abuse of a dominant position or vertical agreements without any consideration for productive processes.

The enacted of paragraph 2 of art. 2086 c.c. (D.lgs. 14/2019) has confirmed that our legal system is moving in this direction, which requires from the entrepreneur the adoption of an organizational structure which is appropriate to the nature and size of his business, therefore imposing precise constraints on the way production processes are organized.

The research project aims at clarifying what restrictions parent companies meet in the organization of their business in order to take account of entrepreneurial interests of subsidiaries.

The investigation will start considering that contractual constraints causing economic dependence are the basis of the so-called external control among companies (art. 2359, par. 1, n. 3), thus highlighting rules provided for groups of companies. Therefore, in the mentioned market context, the research will analyze all implications that rules for groups of companies can have on the contractual powers assigned to the dominant company. Firstly, it is going to study the consequences deriving from the duty that parent companies have to respect the rule of correct management of subsidiaries. Secondly, it will be necessary to verify if remedies referred to in art. 9, L. 192/1998 may affect the organization of company groups.

As to the timetable, it is expected that the first 3 months will be dedicated to the study of the Italian legal literature on these issues; during the next 3 months, the research will proceed with comparative analyses among the main European regulations; in the last 6 months, the illustrative essays of the results will be reported in 1 article or in 1 short monograph



## RESEARCH PROJECT - CODE 8

### ***"Mapping Russian Formalism, or Towards a Theory of Cultural Translatability"***

**Research structure:** Department of Languages, literatures and cultures

**Duration of the grant:** 12 months

**Scientific Area:** 10 - Antiquities, philology, literary studies, art history

**Academic recruitment field:** 10/M2 - Slavic studies

**Academic discipline:** L-LIN/21 - Slavic studies

**Scientific Director:** Prof.ssa Ornella DISCACCIATI

#### **1) Objective:**

Scholarship has yet to solve the issue of identity of Russian Formalism and to advance a philology-based organization of the ideas of a current that can be seen as the incipient moment of a new scientific consciousness.

The research goals are:

- 1) To organize a research group that, via a shared methodology outlined at an international conference, will pursue a theoretical and methodological advancement of the Formalist ideas;
- 2) To carry out the first unabridged translation from Russian into Italian of a scientifically reconstructed and philologically reliable corpus of seminal works of the movement;
- 3) To implement the results in terms of methodology and educational purposes with the elaboration of a digital textbook (Tentative title: *Russian Formalism*). The results of the project will be of scholarly interest for slavists as well as for scholars of (not only) human sciences. After a long period of unsolved contrasts and contradictions throughout a turbulent twentieth century, Formalist ideas seem to suggest the opportunity of a "Philosophy of translation" as "strong" theoretical approach to contemporaneity.

#### **2) Theoretical framework:**

After decades of ideological closures and unproductive theoretical polemics, it seems now possible to fill a gap in the reconstruction of twentieth century Russian and European culture. After more than a century from its first appearance, the analysis of Russian Formalism, one the most productive and controversial scientific currents of the past century, still lacks, even taking into account often brilliant, yet isolated studies, a unanimously accepted structuring among scholars as it should be the case for a movement that, together with historically concurrent scientific discoveries, fostered an authentic epistemological revolution, the heuristic scope of which has yet to be equaled and acknowledged, despite its relevance for current scholarship. After suffering from strict "historicization," the movement needs to be reassessed within a larger perspective that would enable to fully exploit its potential.

Conversely, it seems now evident that only an updated mapping of the core ideas of Formalism can, on the one hand, permit the identification of the elements targeted by both Marxist critics and self-proclaimed adversaries such as M. Bakhtin and his Circle, and, on the other hand, allow to trace the evolution of concepts that, in later years, would be appropriated by all the main theoretical currents of the twentieth century, not only Russian: Prague Structuralism, Moscow-Tartu School, New Historicism, Cultural Studies and French deconstructionism.

The set goal is to reconstruct the history of a "Copernican revolution," supposedly the most powerful in "human sciences" - a definition that, despite its oxymoronic undertones, potentially owes its current status maybe precisely to the Formalists.

At the same time, the task pertains to the tracing of an isotopy in what we provocatively call the "long century." The intention is to create a linkage between the theoretical intuitions of major scholars of two turns-of-century ago such as Potebnia and Veselovsky, to our days through a reassessment of a series of "epistemological breaks" that are in effect just "micro fractures" from the point of view of contemporaneity. It's not a chance if this isotopy, enforced by the Moscow-Tartu School, led to the theorization of the concept of "Total Translation" (Torop 1995).



### 3) Research project description:

Founded in 1915, the Moscow Linguistic Circle (MLK) would witness the birth of the Society for the Study of the Poetic Language (OPOJAZ) the following year. From the ideal conjunction of these two souls, a trend of literary criticism that initiated an authentic Copernican revolution in the humanities took shape: the Formal School – or, according to a denomination from which its members distanced themselves, Formalism.

A century later, it can be stated that the analysis of one of the most thought-provoking and controversial currents of the past century has resulted in the publication of a limited amount of must-read anthologies (see bibliography), while focusing instead on discrete applications and investigations such as textual contextualization, restorations, refutations of single authors depending on the level of competence and field of research – and therefore of hermeneutic priority – of the scholars involved. In a word, this calls for a scholarly investigation in which the body of authors and works that, to a greater or lesser extent, can be labeled as “formalist” is given structure, and in which, at the same time, internal and too often “narcotized” links among these authors and works are “magnified” (Eco 1984).

Hence the main goal of the project: first, to create a definitive corpus of primary sources that pertains to the theoretical aspect of the movement; second, to structure a corpus (“non definitive” – in progress – by definition) of the interpretative approaches advanced so far both in Russia and abroad. The results of the investigations will be made available to the international scientific community in the following hypostases (at different stages of the investigation): 1) An open-access hypertext; 2) A new miscellany of texts never translated into Italian a) from the Russian source texts b) organized by one single guide able to identify, à la Wittgenstein, “the connections” among the various texts and authors; 3) A new “mapping” accessible on multiple levels. This mapping will not limit itself to issues of “historicization”, but it will prove an important heuristic tool whose full potential and range has never been fully investigated and developed. This tool will also serve as a methodological auxiliary tool in related fields such as translation studies (perevodovedenie) or, broadly speaking (if not vice versa), of Cultural Studies (kul'turologiia); 4) A cultural dissemination with important applications in higher education: for advanced university modules in linguistics, translation theory and practice, literary theory, philosophy of language, as well as in related fields such as philosophy of science,

**Key-words:** Slavic Studies, Theory and practice of translation, History of ideas, Literary Criticism.

### 4) Time:

12 months divided into five partly overlapping phases.

- 1) organization of an international conference to verify the validity of the chosen approach with the scientific community – 6 months;
- 2) online dissemination of the corpus of primary and secondary texts (Journal *Vremennik russkogo formalizma*) – 12 months;
- 3) digital textbook (Tentative title: *Russian Formalism*) – 12 months.

### 5) Expected results:

The project suggests the following applications:

#### ACADEMIC:

1. in the form of a hypertext that not only fills a prominent gap in the reconstruction, now possible, of a fundamental page of Russian culture of the twentieth century, but which presents itself as a free and easily accessible tool for specialists, researchers and even students of areas other than Slavic;
2. in the publication of a new corpus of translations signed by a single hand, carried out according to the only admissible heuristic approach, i.e. from Russian, on the basis of philologically reliable editions and archival materials;
3. in the organization of an international and interdisciplinary research network aimed at reconstructing the European cultural memory while strengthening the fusion between the philological tradition and the innovations of digital humanities.

#### DIDACTIC:

1. in the form of didactic modules created with the tools of the digital humanities in order to make the lesson of the formalists not only accessible but also applicable. The recipients are teachers of high schools (updating modules for teachers recognizable in the TIF programs), researchers, university professors of disciplines other than Slavic Studies as well.

#### EPISTEMOLOGICAL:

Università degli studi di Bergamo – via dei Caniana 2 – 24127 Bergamo – [www.unibg.it](http://www.unibg.it)

Area Risorse Umane – Gestione carriere e concorsi – Assegni di ricerca

email: [assegni.ricerca@unibg.it](mailto:assegni.ricerca@unibg.it) – pec: [protocollo@unibg.legalmail.it](mailto:protocollo@unibg.legalmail.it) – telefono 035 2052 583-2878



- believing that humanistic science (both in Russia and in Europe) has passed the stage of Formalism "too soon" (Avtonomova 2009),

- proposing different "welds": in relation to the historical context of reference, to the predecessors, to the successors; through an interpretive prism which underlies the individual theories.

If the translation presents itself as "refleksivnyj resurs ponimanija" (Avtonomova 2009) through our proposal of reading a long-read and rereading text - for too long, we dare to paraphrase Shklovskij himself, "recognized" and no longer "seen": we might approach to a renewed idea of "Total Translatability" of culture, because the methodology of formalism, its system of concepts and the powerful metaphorical potential of its terminology have served as a paradigmatic matrix for many contemporary currents oriented towards overcoming a strictly disciplinary structure of knowledge.

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## RESEARCH PROJECT - CODE 9

### ***“Popular protest in the Iraqi Kurdistan Region: Between elements of radicalisation and institutional strengthening”***

**Research structure:** Department of Letters, philosophy, communication

**Duration of the grant:** 12 months

**Scientific Area:** 14 - Political and social sciences

**Academic recruitment field:** 14/B2 - History of international relations and of non-european societies and institutions

**Academic discipline:** SPS/14 - Asian history and institutions

**Scientific Director:** Prof. Michele BRUNELLI

Scope: De facto an autonomous region since 1991 but officially recognized as part of the Federal Republic of Iraq only with the 2005 Constitution after the fall of Saddam Hussein, Iraqi Kurdistan (KRI) is commonly described as “the other Iraq”. According to the government narrative often repeated by international journalists and academics, the three Iraqi provinces under Kurdish administration would represent an alternative model vis-à-vis the rest of the country due to the higher levels of security, a relatively more prosperous economy, and a more democratic liberal regime. This picture, however, clouds the structural problems KRI has. Kurdish society is dominated by two parties centred around the two rival families of Barzani and Talabani, i.e., the Kurdish Democratic Party (KDP) and the Patriotic Union of Kurdistan (PUK). In the course of the years, these two parties have come to control all government institutions in their respective areas of influence, the military, and the internal security forces, while at the same time making themselves responsible for repeated violations of the civil liberties of their citizens through the restriction of free access to information, the arrest of critical journalists, activists and politicians, and the brutal repression of the right to protest. In addition, KDP and PUK not only continue to finance the main media agencies, but they also supervise a pervasive system of patronage involving clientelistic appointments and serious irregularities in public tenders, which is funded by the revenues of the oil industry and the budget transfers of Baghdad central government. However, if the erosion of the quality of democratic life has been largely accepted for years in exchange for economic development and political stability, the economic crises KRG has had to face since 2015 have produced serious lacerations in the social tissue. Marked by profound inequalities and the lack of prospects for political reform, the dysfunctional and corrupt system of the government has fostered increasing discontent towards the elites especially among the young population, a frustration that ever more often boils into protests and revolts. From the anti-austerity protests following the proclaimed victory over the Islamic State up to the recent student demonstrations for the reintroduction of public allowances, passing through the violent revolts of 2020 and the recurring popular manifestations for better public services and the payment of salaries, therefore, the Kurdistan Region seems to be traversed by strong demands for change, which if not adequately addressed could lead to negative consequences for the stability of the whole country.

Research Idea: In order to fill an evident gap in the existing literature, the research will be concerned with the study of the forms of social mobilization emerged in the Kurdistan Region of Iraq starting from 2018. Against the background of a historical reconstruction of the social and political reality of KRI, the project will elaborate a coherent picture of these different modalities of collective action in order to trace the lines of fracture marking the Kurdish society, an operation that will allow to question the legitimacy of the results achieved so far by the reconstruction process of the country. To this end, the research will first identify the socio-economic factors as well as socio-political grievances that motivated the episodes of protest. Secondly, the study will proceed to illustrate the collective frames employed by participants to build a discourse that could make sense of their experience of struggle and encourage the action of other segments of the citizenry, emphasizing the contrast with the nationalist narrative channelled by the ruling elites; exploring whether there are confessional influences and analysing the methods, strategies and tactics through which the protest is implemented. Finally, the project will assess the organizational effectiveness of these movements and



their capacity to produce positive changes for the community in light of the various strategies adopted by the KRG authorities to quell the protests, from harsh repression to clientelistic mechanisms of co-optation.

Expected impact and research outcomes: the expected research outcomes will have both a theoretical and a practical value. The study will contribute to clarify the specificity of the recent protest phenomena in the Kurdistan Region in relation to the broader anti-government uprisings that shook the already unstable and divided Federal Republic of Iraq between 2018 and 2022. In this sense, the project will elaborate a critical investigation of the social and political reality of KRI aimed at giving voice to the opinions and needs of the people, in contrast to the dominant tendency in the available analyses to concentrate the attention on the geopolitical dynamics of the region and the interests of the local elites. The research outputs will be presented not only to the academic community, but also to local civil society organizations and government representatives, with the intent to offer suggestions for the formulation of social policies potentially capable of responding to citizens' problems and demands. The research program, the theoretical framework and the methodological approach, could then be used to carry out inquiries in other countries of the region characterized by similar social, political, and cultural contexts.