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MP/DP/dt

**PUBLIC SELECTION PROCEDURE FOR NO.10 FIXED-TERM RESEARCHER AS PER
S. 24, PARA 3, LETTER A) OF LAW NO. 240 OF 30.12.2010 AT THE DEPARTMENTS
OF THE UNIVERSITY OF BERGAMO – FINANCED BY PON “RICERCA E INNOVAZIONE”
2014-2020 (D.M. 1062/2021) - PICA CODE 21RTDA003
THE CHANCELLOR**

HAVING CONSIDERED Law 7.8.1990, no. 241 as amended and supplemented “Nuove norme sul procedimento amministrativo”;

HAVING CONSIDERED the D.P.C.M. 07.02.1994, no. 174 “Regolamento recante norme sull'accesso dei cittadini degli Stati membri dell'Unione europea ai posti di lavoro presso le amministrazioni pubbliche”;

HAVING CONSIDERED the D.Lgs. 05.06.1998, no. 204 and, in particular, Article 1, paragraph 2 of the aforementioned decree which provides that the National Research Program (PNR) is prepared, approved and annually updated, pursuant to Article 2 of the same decree, with reference to the European and international dimension of research and taking into account regional research initiatives, contributions and realities;

HAVING CONSIDERED the D.M. 04.10.2000 “Settori scientifico-disciplinari” e successive modifiche e integrazioni”;

HAVING CONSIDERED D.P.R. 28.12.2000, no. 445 “Consolidating act on legislative and regulatory dispositions in terms of administrative documents” as amended and supplemented;

HAVING CONSIDERED the D.Lgs. 30.03.2001, no. 165 “Norme generali sull'ordinamento del lavoro alle dipendenze delle amministrazioni pubbliche”;

HAVING CONSIDERED Law 15.4.2004, no. 106 containing “Norms relating to the legal safekeeping of documents with cultural interest destined to public use”;

HAVING CONSIDERED D.P.R. 3.5.2006, no. 252 “Regulations relating to the legal safekeeping of documents with cultural interest destined to public use”;

HAVING CONSIDERED D.Lgs. 11.4.2006, no. 198 rules in terms of equal opportunities for men and women;

HAVING CONSIDERED Law 30.12.2010, no. 240 regulating “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”;

HAVING CONSIDERED MIUR Ministerial Notice prot. no. 2330 of 20.04.2011;

HAVING CONSIDERED D.M. no. 243 of 25.5.2011 regulating criteria and parameters for the preliminary evaluation of candidates in public selections of contract addressees as per s. 24 of Law no. 240 of 30.12.2010;

HAVING CONSIDERED D.M. 4.8.2011, no. 344 concerning “Disciplinary criteria, on the side of Athenaeums, for the evaluation of fixed-term researchers holding national scientific qualification, for the purpose of calls to the role of associated professor”;

HAVING CONSIDERED Law 12.11.2011, no. 183 (Financial Act 2012) and, especially, its s. 15 holding instructions in terms of certifications and sworn declarations/affidavit;

HAVING CONSIDERED Law 23.11.2012, no. 215 containing provisions in terms of equal opportunities in the composition of contest commissions at public bodies;

HAVING CONSIDERED the D.P.R. 15.12.2011, no. 232 “Regolamento per la disciplina del trattamento economico dei professori e dei ricercatori universitari, a norma dell'articolo 8, commi 1 e 3 della legge 30 dicembre 2010, n. 240”;

HAVING CONSIDERED the D.L. 9.2.2012, no. 5 “Urgent dispositions in matter of simplification and development” later converted with amendments by Law 4.4.2012, no. 35;

HAVING CONSIDERED the D.Lgs. 29.03.2012 no. 49 “Disciplina per la programmazione, il monitoraggio e la valutazione delle politiche di bilancio e di reclutamento degli atenei, in attuazione della delega prevista dall'articolo 5, comma 1, della legge 30 dicembre 2010, n. 240 e per il raggiungimento degli obiettivi previsti dal comma 1, lettere b) e c), secondo i principi normativi e i criteri direttivi stabiliti al comma 4, lettere b), c), d), e) ed f) e al comma 5”;



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HAVING CONSIDERED the D.P.C.M. 13.11.2020 "Adeguamento retributivo per il personale non contrattualizzato a decorrere dal 1° gennaio 2020", pubblicato sulla Gazzetta Ufficiale n. 323 del 31 dicembre 2020;

HAVING CONSIDERED the Programma Operativo Nazionale (PON) "Ricerca e Innovazione" 2014-2020 CCI2014IT16M2OP005 – owned by the Ministry of University and Research, approved by EC Decision (2015)4972, 14.07.2015 as amended and supplemented;

HAVING CONSIDERED the Ministerial Decree of 30 October 2015, No. 855 "Restatement of macro and bankruptcy sectors" and Ministerial Decree of 22 June 2016, No. 494 of rectification of Annex D of the Ministerial Decree 855/2016;

HAVING CONSIDERED the UE Regulation 2016/679 and the Legislative Decree 30 June 2003 no. 196 "Code on the protection of personal data" as amended and supplemented;

HAVING CONSIDERED the D.P.C.M. 13.11.2020 "Adeguamento retributivo per il personale non contrattualizzato a decorrere dal 1° gennaio 2020", published on Gazzetta Ufficiale no. 323 of 31 December 2020;

HAVING CONSIDERED the resolution of the Interministerial Committee for economic planning no. 74/2020 of 15 December 2020 which approved the new National Research Program (PNR) 2021-2027;

HAVING CONSIDERED the D.M. 25.06.2021, no. 737 "Criteri di riparto e utilizzazione del Fondo per la promozione e lo sviluppo delle politiche del Programma Nazionale per la Ricerca (PNR)";

GIVEN the D.M. no. 1061 of 10.08.2021 " Dottorati di ricerca su tematiche green e dell'innovazione: nuove risorse dal PON Ricerca e Innovazione 14-20" which assigns resources to Universities in proportion to the number of students enrolled at each University during the Academic Year 2020/2021, among those that have accredited PhD courses within the XXXVII cycle with the exclusion of telematic universities, totaling 1,654,994 units (latest USTAT data available), as a representation of the potential pool of subjects who will be able to access courses PhD on innovation and green issues;

CONSIDERING that the Ministerial Decree 1061/2021 assigned 35% of the resources allocated to Action IV.4 - Doctorates and research contracts on innovation issues to the activation of doctoral programs under the XXXVII cycle, including national doctorates, and 65 % of these resources for the activation of research contracts pursuant to law no. 240, art. 24, paragraph 3, letter a);

GIVEN the D.M. 1062 of 10.08.2021 " Dal PON Ricerca e Innovazione 14-20 nuove risorse per contratti di ricerca su tematiche green e sui temi dell'innovazione" which assigns resources to the Universities, in proportion to the staff of the Universities, to be dedicated to the contracting of researchers under law no. 240, art. 24, paragraph 3, letter a), to carry out activities relating to innovation; the theme of digital and green in which it will be possible to activate contracts for fixed-term researchers of the type A) what eligible and accountable expenses;

TAKING INTO ACCOUNT that, following the endowment of Actions IV.4 - PhD and research contracts on innovation issues, totaling € 145,000,000.00, Action IV.5 PhD on Green topics and IV.6 equal to € 180,000,000.00 - Research contracts on Green topics, equal to euro 155,000,000.00, it determines an availability of resources for contracts for fixed-term researchers of type A) equal to euro 94,250,000.00 on the themes of innovation and € 155,000,000 on green issues;

REFERRED to art. 2 paragraph 4 of D.M. 1062 of 10.08.2021 according to which the realization of the activities, for the purposes of admissibility under the PON "Ricerca e Innovazione" 2014-2020, must take place no later than 31 December 2023. The financial coverage of the selected researchers will be ensured with the resources the decree refers to until 31 December 2023 and the financial coverage of the contracts for the period after 31 December 2023 must be financed by the individual beneficiaries of the resources referred to in art. 1, charged to its own budget;

HAVING REGARD to the Implementation Regulations of D.M. 1062 of 10.08.2021 which regulates the management, implementation, obligations, reporting of activities and the methods of disbursement of payments to Universities admitted to the funding of research projects



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on a restricted topic in favor of researchers pursuant to law no. 240, art. 24, paragraph 3, letter a), valid on the PON "Ricerca e innovazione" 2014-2020 (PON R&I) Actions IV.4 "Dottorati e contratti di ricerca su tematiche dell'innovazione" and Action IV.6 "Contratti di ricerca su tematiche Green";

HAVING CONSIDERED the note from the Minister of University and Research prot. No. 12025 of 8 September 2020 concerning "indicazioni in merito ai Decreti Ministeriali n. 1061 e n. 1062 del 10 agosto 2021", which provides for the possibility of co-financing the coverage of contracts for the period after 31 December 2023 as well as with its own budget also with the resources referred to in Ministerial Decree 737 of 25/06/2021 art.2, point 1 (the minimum percentage of employment reserved for research contracts can be freely increased);

HAVING CONSIDERED the Statute of the University of Bergamo published with Chancellor Decree Rep. no. 92/2012 of 16.2.2012;

HAVING CONSIDERED Athenaeum's Regulations determining the procedures for employment of university researchers in accordance with Law 240/2010 dispositions, published with Chancellor decree Rep. 424/2012 of 1.10.2012 as amended, at last, with Chancellor Decree Rep. no. 469/2021, of 10.06.2021;

HAVING CONSIDERED the University regulations for research integrity and ethics, enacted with D.R. deed No. 387/2016 of 18 July 2016;

HAVING CONSIDERED The Athenaeum's Ethic Code published with Chancellor Decree protocol no. 14405/I/3 of 19.7.2011, as amended with Chancellor Decree Rep. no. 262/2018, of 12.04.2018;

HAVING CONSIDERED current legislation regulating the legal and economical status of academic and research staff at Universities;

RECALLING the resolution of the Board of Directors, meeting of 22 December 2020, point 3.2 - "Approvazione del Bilancio unico di Ateneo di previsione annuale 2021 e triennale 2021-2023";

HAVING CONSIDERED the request for the covering of 10 fixed-term researcher position as per s. 24, para 3, letter a) of Law 240/2010 deliberated by the following Departments:

- Department of Letters, Philosophy, Communication (sessions of 24.05.2021 and of 24.09.2021);
- Department of Management (sessions of 24.05.2021 and of 27.09.2021);
- Department of Human and social sciences (sessions of 25.05.2021 and Director's decree rep. no. 76/2021 of 27.09.2021);
- Department of Languages, Literatures and Cultures (session of 25.05.2021 and Director's decree rep. no. 56/2021 of 27.09.2021);
- Department of Engineering and applied sciences (sessions of 21.07.2021 and of 27.09.2021);
- Department of Management, Information and Production engineering (session of 19.07.2021 and Director's decree rep. no. 72/2021 of 27.09.2021);
- Department of Law (session of 27.09.2021);
- Department of Economics (session of 27.09.2021);

NOTING that with the resolutions of the Board of Directors of 27.05.2021, 30.07.2021 and 29.09.2021 with the favorable opinion of the Academic Senate in the sessions of 27.05.2021, 30.07.2021 and 27.09.2021, the proposals about the recruitment of 10 fixed-term researchers of type a) for a duration of 36 months were approved;

HAVING CONSIDERED the letters of intent sent by the companies where the researchers will carry out part of the research activity;

WHEREAS that the costs relating to the portion of the contracts up to 31.12.2023 are borne by the funds referred to in Ministerial Decree 1062 of 10.08.2021 and the residual costs are covered with financial resources compatible with the provisions of the same decree;



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HEREBY DECREES

Section 1

Announcement of the selection procedure

The public selection procedure is released for no. 10 fixed-term researcher position at the University of Bergamo, in compliance with s. 24, para 3, letter a) of Law no. 240/2010 and with current Athenaeum's Regulations on that matter:

DEPARTMENT OF LETTERS, PHILOSOPHY, COMMUNICATION

SELECTION CODE N. 1

Positions: no. 1

Group of academic recruitment field: 14/D - Applied sociology;

Academic recruitment field: 14/D1 - Economic sociology, sociology of work, urban and environmental sociology;

Academic discipline: SPS/09 - Economic sociology and sociology of work and organizations;

Type: Green;

Title of the research project: Ecological transition and companies: an organizational sociology research;

Scientific referent: prof. Marco Marzano;

References to SNSI 2014-2020: *aree tematica industria intelligente e sostenibile, energia e ambiente;*

References to PNR 2021-2027: *trasformazioni sociali e società dell'inclusione;*

Company sector: Companies that intend to invest in environmental sustainability and in the improvement of organizational models

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

The chosen person will have to engage, together with other colleagues in the field, in a research activity concerning topics traditionally covered by economic sociology, namely: the relationship between economic activities and political regulation; industrial relations; social inequalities; labour relations; organisational models; the impact of the presence of immigrants on society and the economy; social services and the professions.

The selected researcher will have to engage with other colleagues in the sector, for a research activity concerning not only the topics traditionally object of economic sociology (the relationship between economic activities and political regulation, industrial relations, social inequalities, labor relations, organizational models, the impact of immigration for society and economy, social work and professions) but also those environmental sustainability and ecological transition and their impact for organization of work and industrial relations.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The chosen person will have to engage in teaching activities related to the sociology of economic and labour processes, meeting the needs of the department Ifc and of the degree courses in communication sciences.

Commitment: full time

Service location: Bergamo

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English

DEPARTMENT OF MANAGEMENT

SELECTION CODE N. 2

Positions: no. 1;

Group of academic recruitment field: 13/B - Business administration;

Academic recruitment field: 13/B1- Business administration;

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email: selezionipersonale@unibg.it - pec: protocollo@unibg.legalmail.it - telefono: 035 2052.876



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Academic discipline: SECS-P/07 – Business administration;

Type: Green;

Title of the research project: Sustainability and circular economy in textile sector marker;

Scientific referent: Prof. Stefania Servalli

References to SNSI 2014-2020: *Industria intelligente e sostenibile, energia e ambiente;*

References to PNR 2021-2027: *OT3. Mobilitare l'industria per un'economia pulita e circolare;*

Company sector: textile

Period to be spent in a company: 6 months;

Research program:

the researcher is required to carry out activities connected to a sustainability and circular economy research project related to the textile sector, with reference to fields linked to the scientific research sector SECS-P/07. The research project implies investigations in collaboration with a local organization. In this context, the project aims to study main drivers of sustainability, possible model of circular economy and reporting activities adopted. In order to participate in this research project, the candidate should have already published scientific articles in national and international journals on the topic. Moreover, the candidate should demonstrate the capability to actively take part to the scientific debate by the participation into national and international academic conferences. The candidate has to demonstrate a sound knowledge and proven analytical skills in both quantitative and qualitative data analysis. In addition, the candidate has to demonstrate the ability to organize and perform field investigations according to the mainstream and most advanced methodologies required by international journals.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The total annual commitment for teaching activities, supplementary teaching and service to students amounts to 350 hours. The researcher is required to carry out the program of activities that will be annually defined by the Academic Senate and by the Department during the teaching planning.

The researcher will teach, also in English, in master's and three-year degree courses in the Department of Management, included in the sector 13 / B1 – Business Administration. The researcher will also be asked to contribute to supplementary activities and services to students and activities related to the preparation of the final exam. The candidate is also expected to be involved in the Departmental organizational duties and in the organization of the Department's courses.

Commitment: full time

Service location: Bergamo

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English.

SELECTION CODE N. 3

Positions: no. 1

Group of academic recruitment field: 13/B – Business administration and management;

Academic recruitment field: 13/B2 – Management;

Academic discipline: SECS-P/08 – Management;

Type: Green;

Title of the research project: Investigating smart food business models and consumption;

Scientific referent: Prof. Daniela Andreini;

References to SNSI 2014-2020: *5.3.3. Agrifood;*

References to PNR 2021-2027: *Azione 2– Salute, Alimentazione, Qualità della vita;*

Company sector: food

Period to be spent in a company: 6 months;

Research program:

The researcher will investigate the business eco-system and the consumption patterns of innovative and sustainable food products in tight collaboration with a local company. In particular, this research aims to support the introduction of insect-based foods into the Italian and European markets. This research is in line with the zero-waste principle of the circular economy indicated by the European Union and in line with recent consumption trends related to the consumption of alternative protein-



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based food.

The candidate has to show a track record of national and international publications on the topic and/or on management's most advanced research methodologies. The candidate also has to demonstrate sound knowledge and proven analytical skills in quantitative and qualitative research methodologies, in line with the most widely adopted research in business and consumption-related studies. Finally, the candidate must actively participate in the scientific debate on the research topics highlighted above.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

For this position, the expected teaching workload (comprehensive teaching, supplementary teaching activities and services to students) is 350 hours for the full-time commitment regime. Furthermore, the teaching workload in the official courses within undergraduate and graduate programs must be of 90 hours. In addition, the researcher is required to fulfil the program of teaching activities defined yearly by the Academic Senate and by the Department. The courses included in the teaching load will be both in Italian and in English, in undergraduate and graduate programs of the Department of Management related to the scientific disciplinary sector 13/B2 - Management.

Finally, the potential candidate is expected to mentor and supervise students at the undergraduate and graduate levels to prepare for their bachelor or master dissertations.

Commitment: full time

Service location: Bergamo

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English.

DEPARTMENT OF ECONOMICS

SELECTION CODE N. 4

Positions: no. 1

Group of academic recruitment field: 13/D – Statistics and mathematical methods for decision;

Academic recruitment field: 13/D1 – Statistics;

Academic discipline: SECS-S/01 – Statistics;

Type: Green;

Title of the research project: Urban transport network and sustainable mobility with low environmental impact

Scientific referent: Prof. Raffaele Argiento

References to SNSI 2014-2020: *Agenda Digitale, Smart Communities, Sistemi di mobilità intelligente; Traiettorie di sviluppo Sistemi di mobilità urbana intelligente per la logistica e le persone;*

References to PNR 2021-2027: *Grande ambito di ricerca: Clima, Energia, Mobilità sostenibile (Capitolo 5.5); Area di intervento: Mobilità sostenibile (Capitolo 5.5.1);*

Company sector: public transport management, light mobility, parking.

Period to be spent in a company: 6 months;

Research program:

Chapter 2 (called Missione 2) of the Italian National Recovery and Resilience Plan (PNRR) is titled "rivoluzione verde e transizione ecologica" (green revolution and ecological transition). Chapter 5.5 of the Italian National Research Plan 2021-2027 (PNR) identifies as main research field the topic "Climate, Energy, Sustainable Mobility". These chapters promote the development of sustainable local transport services also thanks to investments to support green transport infrastructures with the goal of reducing air pollution and improving quality of life in urban areas. In this framework, the urban transport systems are thought of as an integrated structure (network) including public transport (buses and trams) with the related infrastructure, the urban parking system and the bike sharing service.

The research activity will be conducted in collaboration with an urban transport company that will provide the mobility network data. An in-depth knowledge of statistical models, preferably Bayesian, to analyse complex networks (e.g. recovering community structure in graph data) and spatio-temporal data will be required. The available data are complex in structure and large in sample size,



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therefore a proved ability to manage "big data" and to implement advanced and computational efficient methods for statistical models is strongly requested. The research activity will focus on the methodological aspects of statistical methods for network data as well as on the related applications. The aim is to provide a useful tool to support the green-oriented strategies of the partner company as well as to help local authorities and policy makers.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

Didactic activities provided for by the contract, including integrative and service didactics to students: the candidate will have to carry out the teaching activity, also in English, in the courses of the disciplinary sector SECS-S/01 taught in the three-year bachelor's and master's degree courses of the Department and possibly in the PhD programs of the University of Bergamo. The total annual commitment for teaching activities, supplementary teaching and student tutoring amounts to 350 hours for the full-time commitment regime. The researcher is required to carry out the program of activities that will be annually defined by the Academic Senate and by the Department during the didactic planning. The researcher will also be asked to contribute to supplementary activities for students and to the activities related to thesis for three-year bachelor's and master's degree.

Commitment: full time;

Service location: Bergamo;

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English.

DEPARTMENT OF HUMAN AND SOCIAL SCIENCES

SELECTION CODE N. 5

Positions: no. 1

Group of academic recruitment field: 11/D – Pedagogy and Educational Theories;

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

Academic discipline: M-PED/04 – Educational research;

Type: Innovation;

Title of the research project: Innovative digital technologies for learning and caring;

Scientific referent: Prof. Marco Lazzari

References to SNSI 2014-2020: 5.4.2 *Industria intelligente e sostenibile, energia e ambiente*;

References to PNR 2021-2027: MISSIONE 4: *Istruzione e ricerca*; M4C2: *dalla ricerca all'impresa*;

Company sector: advanced manufacturing

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

Applied and empirical research activities, with an experimental approach, in the field of education, with particular focus on the area of educational technologies and techniques, and educational and social robotics (ref. Azione IV.4 – Contratti di ricerca su tematiche dell'Innovazione, DM 1062, 10/08/2021). Specific fields of investigation will be: (a) socially evocative technologies and their impact on the learning processes in children and adolescents; (b) technological didactic mediators (multimedia, digital storytelling, coding e computational thinking); (c) use of social robots in educational and caring contexts. The research activities, carried out in collaboration with colleagues from other scientific disciplines, in particular from the area of psychology, will require active involvement in international networks and research groups. At least six months will be spent at a company (Italian or European) engaged in innovative digital applications in the field of education and / or care, as part of an agreement with the University in order to develop innovative solutions to the problems faced and to foster innovation and exchange between the academia and the world of production. During the three-year period, the researcher's scientific productivity objectives will be: (a) scientific publications in venues (journals and / or volumes) recognised as significant in the context of the international community of reference; (b) presentations at international conferences.

The activity will be developed in consonance with the National Research Program 2021-2027, with specific reference to the areas of health technologies and robotics and the use of digital systems in



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research, education and training, with particular attention to the identification of human – computer communication strategies suitable for the different ages of users engaged in new, challenging acquisitions far from the usual methods and technologies. It will also be linked to the objectives of the National strategy of intelligent specialization, in particular with reference to the interests expressed with respect to the creation of products and services intended to meet the demands of the aging population (Silver economy), home automation robotics and technologies for innovative products and services for caring and for active aging.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

Classroom and distance teaching, also in English, within the courses of methodology of educational research and laboratories concerning educational technologies, at the Bachelor's degree level and at the Master's degree in Teacher education (Scienze della formazione primaria). Academic year 2021 2022: Technologies for caring and learning (in English), Master's degree on Pedagogy (syllabus: <https://www.unibg.it/ugov/degrecourse/80954>); Educational technology workshop (in Italian - Laboratorio di tecnologie didattiche), Master's degree in Teacher education (syllabus: <https://www.unibg.it/ugov/degrecourse/26954>). It will also be asked to contribute to integrative teaching and student service activities, tutoring for internships and the preparation of bachelor's and master's degree theses, as well as in the laboratories on Information and Communication Technologies planned as part of the teachers' training and promoted in collaboration with the Center for the Quality of Teaching and Learning (CQIA).

Commitment: full time

Service location: Bergamo

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English

DEPARTMENT OF LANGUAGES, LITERATURES AND CULTURES

SELECTION CODE N. 6

Positions: no. 1

Group of academic recruitment field: 10/G- Historical and general linguistics;

Academic recruitment field: 10/G1 - Historical and general linguistics;

Academic discipline: L-LIN/01 - Historical and general linguistics;

Type: Innovation;

Title of the research project: "Mutual understanding and plurilingual communication in a business oriented environment".

Scientific referent: Prof. Barbara Turchetta;

References to SNSI 2014-2020: 5.4.2 *Industria intelligente e sostenibile, energia e ambiente*

•5.4.4 *Agenda digitale, Smart Communities, Sistemi di mobilità intelligente;*

References to PNR 2021-2027: *Missione 1: Digitalizzazione, innovazione, competitività, cultura e turismo.*

– M1C1: *Digitalizzazione, innovazione e sicurezza nella PA*

Missione 4: istruzione e ricerca.

– M4C2: *dalla ricerca all'impresa*

Missione 5: Inclusione e coesione

– M5C3 *Interventi speciali per la coesione territoriale;*

Company sector: Direct production of services enterprise

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

The research activity will concern the linguistic and mathematical modeling of intercomprehension, in the context of enabling technologies and specifically in the fields of communication and information. The multidisciplinary approach relates the applied research activity to the studies that combine computerization and investigation of human behavior (digital humanities), in order to innovate and improve service production processes, with reference to the national thematic area for smart and sustainable industry. Specifically, the observation will focus on personal services, operated



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by companies in the airport sector and related production activities.

The empirical basis is referred to the relationship between company and customer and will be based on a corpus of data drawn from a group of European languages relevant in communication in public and intercultural contexts. The linguistic research program concerns a relatively neglected area by studies on multilingualism and the corpus of relevant languages are characterized by significant typological differences, relevant for the purposes of the research objectives.

The modeling of the intercomprehension process requires the consideration of some key variables, including the following:

- channel (spoken, written and digital mediated);
- skill considered (e.g. decoding of written texts, oral interaction, etc.);
- configuration of the contact situation in terms of languages involved;
- competence in the bridge language (native vs. interlanguage);
- correlation between levels of analysis (e.g. phonology, morphology, syntax, etc.) and typological and etymological characteristics of the languages considered;
- direction of the text decoding process;
- characteristics of the text (textual genre, topic, lexical richness, etc.);

In addition to general linguistic skills, the type of research requires specific skills in the fields of comparative typology and acquisitional linguistics, as well as the ability to use the tools developed in these areas in order to verify the results. The methodology involves knowledge relating to the sciences of sustainability, together with use of statistical and IT tools (including script programming) and the creation and management of corpora in order to properly set up and analyze the databases that are essential to pursue the research objectives. The statistical analysis in particular will have to take into account on the one hand the asymmetry of the decoding process, on the other hand the dependence of the model on the type of data used to train it. This methodological approach will allow to characterize in a precise way the processes of identification of system units (words, constructions, morphemes) in different situations of contact between related languages.

The results obtained through the activities described so far allow their implementation in various areas of applied linguistics, in particular with regard to the implications of intercomprehension for exolingual communication, facilitating communication processes in oral, written and digital mediated strategies in public and corporate contexts and promoting the competence of second and foreign languages. These results will represent a thematic reference nucleus for permanent training actions within the company.

The research activity involves the dissemination of results too through the publication of scientific papers of different types, participation in national and international conferences related to the themes of the project, as well as the possible use of the results obtained in various third mission tasks.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The annual workload for official courses will amount to 60 hours and supplementary teaching to 30 hours; the remaining hours will be devoted to educational services and support activities for students. The teaching and educational activities will be approved by the Department of Foreign Languages, Literatures and Cultures of the University of Bergamo within the yearly planning of the teaching activities of the Department.

Commitment: full time

Service location: Bergamo

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English.

DEPARTMENT OF MANAGEMENT, INFORMATION AND PRODUCTION ENGINEERING

SELECTION CODE N. 7

Positions: no. 1;

Group of academic recruitment field: 09/G – Systems engineering and bioengineering;

Academic recruitment field: 09/G2 – Bioengineering;

Università degli studi di Bergamo – via dei Caniana 2 – 24127 Bergamo – www.unibg.it

Area risorse umane – Gestione carriere e concorsi docenti e ricercatori

email: selezionipersonale@unibg.it – pec: protocollo@unibg.legalmail.it – telefono: 035 2052.876



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Academic discipline: ING-IND/34 - Industrial bioengineering;

Type: Green;

Title of the research project: Organ-on-chip application for reduction of toxicity in the environment;

Scientific referent: Prof. Andrea Remuzzi;

References to SNSI 2014-2020: 5.3.10 Salute;

References to PNR 2021-2027: 5.1 Salute - Articolazione 5 - Valutazione dell'impatto dell'ambiente sugli outcomes di patologie acute e cronico-degenerative;

Company sector: Industrial;

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

The object of the research activity will be the study, at a theoretical and experimental level, of topics related to the scientific disciplinary sector ING-IND / 34-Bioengineering, with particular reference to the development and validation of 3D cell culture systems to be used "in vitro", and in perfusion conditions, to replicate specific functions of organs and tissues in the laboratory, with the development and characterization of systems now called "organ-on-chip". The research will make it possible to develop and test in the field a replica of the pulmonary alveolar membrane to study the toxicity of airborne particulate in "in vitro" systems, in order to study the toxicity of emissions today particularly present in the environment of our territory and to develop non-toxic products and processing systems. The research activity is aimed at publishing the results obtained in indexed international scientific journals.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The teaching activities provided for in the contract will take place within the scientific sector of biomedical engineering (ING-IND/34), mainly in the bachelor course (Engineering of Health Technologies). These activities, as defined by the Department's didactic planning, will include the organization, and conduct of theoretical lessons and practice, assistance with final exams, tutoring of undergraduates students during stage periods, and any teaching assignment established as institutional task. The lectures will be assigned annually by the Department according to the regulations governing the teaching tasks of teachers and researchers. The research activity will consist of a theoretical and experimental approach in biomedical engineering aimed at studying the role of mechanobiology in the physiopathological mechanisms responsible for cardiovascular and renal diseases. The activities will involve specific topics related to in vitro investigation of cells and tissues, the development of miniaturized systems for perfusion of cells and tissues, image acquisition and analysis, 3D reconstruction and theoretical modeling aimed at processing experimental data.

Commitment: full time

Service location: Dalmine

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English

DEPARTMENT OF ENGINEERING AND APPLIED SCIENCES

SELECTION CODE N. 8

Positions: no. 1

Group of academic recruitment field: 08/B - Structural and geotechnical engineering;

Academic recruitment field: 08/B3 - Structural Engineering;

Academic discipline: ICAR/09 - Structural Engineering;

Type: Green;

Title of the research project: Integrated retrofit techniques, conceived with a Life Cycle Thinking approach, to improve sustainability, resilience and safety of the existing building stock;

Scientific referent: prof. Alessandra Marini

References to al SNSI 2014-2020: 5.3.11 Smart, Secure and Inclusive Communities 5.3.12 Tecnologie per gli Ambienti di Vita 5.3.13 Tecnologie per il Patrimonio Culturale 5.4.2 Industria intelligente e sostenibile, energia e ambiente;

References to PNR 2021-2027:

Università degli studi di Bergamo - via dei Caniana 2 - 24127 Bergamo - www.unibg.it

Area risorse umane - Gestione carriere e concorsi docenti e ricercatori

email: selezionipersonale@unibg.it - pec: protocollo@unibg.legalmail.it - telefono: 035 2052.876



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Mission 2: green revolution and ecological transition. Particularly:

M2C1: circular economy: through the development of technical solutions that use recycled / recyclable materials, possibly from renewable sources and second life materials (for example wood).

M2C3: energy efficiency and retrofit of buildings: the proposal focuses on the development of integrated retrofit techniques, which allow maximizing the performances and comfort of the building, whilst minimizing environmental impacts and costs on the life cycle, thereby contextually pursuing the objectives of eco-efficiency, resilience, and structural safety, that are mandatory to foster an effective transition towards a more sustainable building heritage.

Mission 4: education and research. In particular: M4C2: from research to business

Company sector: buildings

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

The researcher's activities will be carried out in the field of the integrated requalification of the existing building heritage; in particular, the researcher will develop design methodologies and innovative retrofit techniques aimed at increasing the sustainability, safety and resilience of buildings, by adopting the Life Cycle Thinking approach.

As far as the design procedures is concerned, a multi-performance based design approach for the design of sustainable holistic interventions will be developed, aimed at maximizing structural performance and minimizing environmental and economic impacts on the building life cycle, as well as at defining metrics and indicators of economic and environmental sustainability of the interventions.

As for the techniques, the structural conceptual design of exoskeleton solutions for the mitigation of the seismic risk, using dry prefabricated solutions, assembled with standardized connection systems, repairable in the event of an earthquake, flexible and adaptive to be implemented within incremental rehabilitation interventions, which can be completely dismantled to allow the recycling / reuse of components at the building end of life.

Tackling such research topics will require: expertise in life cycle thinking approaches and knowhow in the LCT principles; expertise in the field of integrated retrofit of existing buildings with both over-resistant and dissipative solutions, with particular reference to shell exoskeletons assembled outside the building; knowhow about macro and micro prefabrication and on dissipative and over-resistant connection systems; experience in structural analysis and numerical modeling of existing buildings and in non-linear dynamic analyses; knowhow of the metrics of sustainability, and expertise in the quantification of impacts and costs of deep renovation interventions over the life cycle.

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

Teaching activities will be carried out within the courses of Structural Engineering at the Department of Engineering and Applied Science. 60 hours/year are expected. Research will encompass theoretical, analytical, numerical and experimental activities.

Commitment: full time

Service location: Dalmine

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English

SELECTION CODE N. 9

Positions: no. 1

Group of academic recruitment field: 09/D - Chemical and materials engineering;

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

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

Type: Green;

Title of the research project: Materials for Hydrogen Service

Scientific referent: Prof. Tommaso Pastore

References to SNSI 2014-2020: 5.4.2 *Industria intelligente e sostenibile, energia e ambiente;*



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References to PNR 2021-2027: MISSIONE 2: RIVOLUZIONE VERDE E TRANSIZIONE ECOLOGICA - M2C2: energia rinnovabile, idrogeno, rete e mobilità sostenibile MISSIONE 4: ISTRUZIONE E RICERCA - M4C2: dalla ricerca all'impresa.

Company sector: advanced manufacturing

Period to be spent in a company: From a min. of 6 months to a max. 12 months;

Research program:

The research activity is focused on the study of materials behavior. It points out on the relationship between materials microstructure and its properties, on the evaluation of the combined effect of load and environment that affects the engineering behavior, on the methods for the study and characterization of materials properties. Skills in the field of corrosion and corrosion protection and prevention are also required, ranging from metals and alloys to polymeric and composite materials.

The knowledge of relevant materials in specific industrial fields such as mechanical, construction and building, energy production - and more specifically related to the current strategic outlook - to the themes of energy transition, emissions, sustainability and the energy content of their production are required to carry out the research program.

The aim of the research is the study and qualification of suitable materials for the perspective hydrogen supply chain which will catalyze the future industrial growth and decarbonization of Italy.

In this view, hydrogen is considered a promising energy vector, because it does not generate emissions at the end-of-life and because it can be produced through totally decarbonised processes or processes characterised by negligible emissions. Furthermore, it can guarantee flexibility and resilience to the energy system, thus making the production of electricity from renewable sources more homogeneous. In addition, it can be easily transported through the existing gas pipeline network allowing to connect the production and consumption sites, leading to relevant decrease in supply expenses and guaranteeing the security and continuity of supply, even in dense industrial areas with high energy demand.

On the other hand, the widespread and safe use of hydrogen requires an in-depth study of some critical points. Among them, the scientific knowledge on the materials embrittlement and permeability to this gas is of utmost importance to ensure the safety and reliability of this technological solution. Furthermore, the regulatory framework for materials selection and engineering characterization needs to be further developed to fully support hydrogen as one of the fundamental pillars of the new energy ecosystem.

The research program will be divided into five main topics with reference to the main metals and alloys as well as polymeric and composite materials chosen in close collaboration with the industrial partner involved in the research. The most innovative and recent additive technologies that are rapidly establishing in the industrial panorama will be also considered as strategic to produce the most critical elements.

The main research topics are reported thereafter.

- Hydrogen compatibility assessment of engineering materials
- Evaluation of the permeability of hydrogen through materials
- Study and identification of the conditions promoting embrittlement onset and possible delayed ruptures induced by hydrogen,
- Development of experimental study techniques to study the materials behavior in the presence of hydrogen at high partial pressure, in the absence and in the presence of other gases, such as methane or carbon monoxide
- Effect of the production cycle and additive manufacturing processes on materials permeability to hydrogen and materials deterioration phenomena
- Definition and study of the behavior of materials during the release of hydrogen
- Development of interdisciplinary experimental research infrastructures for studies in hydrogen at medium and high pressures.

The research activity will be carried out in strict cooperation with industrial companies interested in the production of critical elements for hydrogen production, transport and distribution systems as an energy vector. The researcher is expected to work in these companies not less than 6 months, up to a maximum of 12 months. This period is intended to complete the research activity carried out in the laboratories of the University of Bergamo.



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Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The teaching activity deals with the typical topics on Materials Science and Technology (SSD ING-IND / 22). It will be performed in the field of reference materials for mechanical engineering, construction and building, smart technologies, and materials for chemical plants and to produce energy, in the context of the themes of mechanical, microstructural characterization, resistance to degradation of metallic, polymeric and composite materials, with particular reference to the most recent key enabling manufacturing technologies. The activity will surely support the science and technology courses of active materials in the engineering school, and it will also aid and organization of educational laboratories and support for the experimental activities of students, undergraduates and doctoral students.

Commitment: full time

Service location: Dalmine

Maximum number of publications: 12

Oral examination to ascertain the knowledge of the language: English

DEPARTMENT OF LAW

SELECTION CODE N. 10

Positions: no. 1

Group of academic recruitment field: 12/C - Constitutional and Ecclesiastical law;

Academic recruitment field: 12/C1 - Constitutional Law;

Academic discipline: IUS/08 - Constitutional Law;

Type: Green;

Title of the research project: Green deal: the multilevel system of the sources of law, the allocation of competences and the role of the independent authorities;

Scientific referent: Prof. Anna Lorenzetti

References to SNSI 2014-2020 The programme falls within the "Southern Region Focus" (par. 4.3) and specifically within the "production structure of Southern region" (par. 4.3.2); regarding the regional specialisation areas, the programme falls within "energy" (par. 5.3.7), "health" (5.3.10); regarding the "national thematic areas: the development of new markets" the programme falls within "Smart and sustainable industry, energy and environment" (par. 5.4.2); regarding "technology development trajectories" (par. 5.5), the programme falls into the "smart and sustainable industry, energy and environment: technological trajectories of development national priorities" (5.5.4).

References to PNR 2021-2027: The project is a part of the "Challenges: education, training and human capital" (pt. 2.2.3) and among the novelties of the PNR "Open science, open innovation and society" (pt. 3.5.1). It also aims to "enhance the circulation of knowledge and skills between the world of research and the production system" (pt. 4.5). With regard to "the major areas of research and innovation and the related areas of intervention" (pt. 5), intersections refer to health (pt. 5.1), safety and in particular the safety of natural systems (5.3.2). The programme crosses the heading "climate, energy, sustainable mobility", in particular, as regards "Industrial energy" (pt. 5.5.3) and "Environmental energy" (pt. 5.5.4)

Company sector: ISEA SRL - Company operating in the sectors of Industrial Waste Management, Disposal Services and Treatment of Industrial WasteWater, registered in the National Register of Environmental Managers (Sicily Regional Section) - n. PA 01363.

Period to be spent in a company: 6 months

Research program:

The research activities focuses on the legal system in which the green economy is located. The production models of the sources and the evolution of the legal formants (according to Sacco) will therefore be considered (the topics are: green transition, ecosystem protection and conservation, reduction of the impacts of climate change). The research will take into account multilevel dynamics, observing the impact of supranational law (EU perspective and international dimension), as well as the production of the sub-state production and offering a complex perspective also applied to the enterprise. The role of Regions will also be considered analysing their competences and the evolution



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over twenty years of Title V Reform. The issue of jurisdiction will also be investigated by verifying the possible role of ADRs and independent authorities (i.e. ARERA).

Didactic activities provided for by the contract, including integrative and service didactics to students, and research activity characteristics:

The expected teaching workload (comprehensive of teaching, supplementary teaching activities and services to students) is 350 hours for the full-time commitment regime. The researcher is required to fulfil the program of activities defined on a yearly base by the Academic Senate the Department in compliance with the rules and procedures of the University of Bergamo concerning teaching duties. The researcher will carry out his/her teaching activity in the context of the courses offered by the three-year, master's and single-cycle master's degree programs offered by the Department of Law, also in English.

The researcher will be asked to contribute to the activities related to the preparation of the final exam for the achievement of the three-year degree, master's degree and single-cycle master's degree and the research doctorate. The researcher may possibly carry out organizational tasks within the Department and the related study courses.

Commitment: full time

Service location: Bergamo;

Maximum number of publications: 12;

Oral examination to ascertain the knowledge of the language: English.

Section 2

Requirements for attending the selection

The following candidates, including citizens of Countries outside the European Union, are admitted to the selection procedure:

- those holding a research PHD (or equivalent) achieved either in Italy or abroad

A declaration of equivalence is required for educational qualifications achieved abroad, as provided by current norms on the matter. The equivalence of PhD obtained abroad is required at the Ministry of Education under the provisions of art. 74 of the Presidential Decree no. 382/1980. Alternatively, for admission to the competition, for educational qualifications obtained abroad is required equivalence statements or the declaration about the starting of the equivalence request to the qualifications required by the notice under the procedure laid down in art. 38 of D.Lgs. no. 165/2001 (see website <http://www.funzionepubblica.gov.it/strumenti-e-controlli/modulistica>). In that case the candidate is admitted under reservation to the selection and, if declared winner of the outcome of the competition, before signing the contract must produce proof of the equivalence of the qualification used for the purpose of admission.

The following subjects will not be admitted to the selection procedure:

- subjects previously hired long-term as first or second level professors or researchers, even if no longer in service;
- 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 the 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;
- those who are excluded from enjoying civil and political rights;
- those who were removed or discharged from office by any Public Body for insufficient yield, or were dismissed from any other public engagement, in accordance with s. 127 para d) of D.P.R. 10.1.1957, no. 3;



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- candidates having any relationship or kinship, up to and including three times removed relatives, either with a professor belonging to the Department issuing the call or with the Chancellor, the General Director and any member of the Board of Directors at the Athenaeum.
- 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 the 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 requirements needed to obtain admission must be owned up to the deadline of the application submission period.

This Administration guarantees parity and equal opportunities to both men and women for access and treatment on the job.

Section 3 **Comparative evaluation disqualification**

The following reasons cause disqualification:

- failure to sign the application form;
- deficiency of admission requirements as per s. 2;
- failure to meet the deadline and procedures for submitting the application (including attachments and publications) as mentioned under the following section no. 4;
- sending a number of publications higher than the requested number.

The candidates may be admitted subject to verification in case of supplementary investigation requirements; in this case, they are asked to regularize their application within the terms peremptorily assigned.

The Administration may decide, at any moment, the exclusion of candidates lacking one of the requirements needed for this announcement; the exclusion will be declared by chancellor decree and delivered to the person concerned by registered mail with return receipt or equivalent

Section 4 **Application procedure and submission deadline**

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

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

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

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

Applicants shall upload all personal and professional data as requested by the application procedure; all documents must be uploaded in PDF format (.pdf). Each applicant can produce a maximum of no. 30 publications and a maximum of no. 10 other documents.

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.



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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 competition.

The online application and submission procedure shall be completed **by 23.10.2021 until 12:00 (Italian time).**

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.

Section 5 Application form

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, his first and last names, date and place of birth, tax code and address of residence; a mailing address, elected for the purpose of the application, must also be mentioned along with a phone contact and an electronic mail address, eventually PEC.

The candidate must also declare that he/she:

- a) his/her citizenship;
- b) enjoys civil and political rights;
- c) for Italian citizens: is listed in election rolls, specifying the municipality or eventually indicating the reasons why he is not listed or why he was removed from them; for foreign citizens (citizens of the European Union member States, or their families or citizens of third Countries as shown in the preceding letter) enjoys civil and political rights in the Country of citizenship or origin or else the reasons why he/she cannot enjoy them;
- d) was not removed or discharged from office by any Public Bodies on the basis of persistently insufficient yield, that is, was not dismissed from any public employment, as provided by s. 127, letter d) of the Presidential Decree (D.P.R.) 10.01.1957, no. 3;
- e) has not been found guilty of criminal offences and does not have any pending criminal proceedings, otherwise he/she must list such convictions indicating the details of all related judgements and any pending criminal proceedings;
- f) his position in terms of compulsory military service, only for Italian male citizens born within 1985.

In the application for participation in the selection, the candidates must also specify:

- a) they do not hold at present and that they had not previously held the title of professor of first and second level or indefinite-time university researcher;



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- b) they do not have a degree of consanguinity or affinity, up to the fourth degree, with a professor of the Department making the call or with the Chancellor, the General Manager or a member of the Board of Directors of the University.

Candidates who wish to take part to comparative evaluations for multiple examination sectors, must also present applications and any attachments separately for each sector.

Any address changes must be promptly reported to the Selection Office and Legal Office.

Candidates with non-Italian citizenships shall also have to declare to possess an adequate knowledge of the Italian language.

In accordance with Law 5.2.1992, no. 104, they must specify in the application form the kind of aids needed in relation to their necessities, as well as their possible need of extra times to complete the tests required by this announcement.

The following must be attached to the application form:

1. photocopy of a valid identification document;
2. *curriculum vitae* describing educational and scientific activity, dated and signed;
3. numbered list, dated and signed, of all produced scientific publications (Annex A);
4. publications and works 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 a qualification obtained abroad: the applicant must indicate the details of comparability/equivalence or annex a copy of the request for the comparability/equivalence (cf. Section 2);
6. 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);

The University Administration assumes no responsibility in case the addressee is unreachable or unavailable or in case of dispersion of notices caused by inaccurate indication of the mailing address on the candidate side or on cases of missed or late notice of changes in the mailing address mentioned in the application. Furthermore, the Administration cannot be held responsible for missed or late deliveries of notices related to the selection on grounds that are not attributable to the Administration itself, such as post or telegraph mishandlings, third-party faulty behaviour, fortuitous or force majeure events.

The Administration reserves the right to proceed with suitable checks on the veracity of the contents shown in sworn declarations, as ruled by D.P.R. 445/2000.

We inform you that, as of 1st January 2012 in accordance with the dispositions of Law 183/2011, it is forbidden for public bodies and for public service overseers to request the exhibition or the submission of certificates issued by other public bodies in matters of personal status, features and facts. Therefore, the Athenaeum may not accept, nor request, any certificate in replacement of sworn declarations and affidavits, which must be submitted in substitution of such certificates.

The certificates issued by the bodies in charge of the foreign applicant's Country must be compliant with current regulations of that Country and, also, must be sworn before and certified by the Italian consulate in charge.

A translation into Italian must be attached to acts and documentation that are issued in foreign languages, after certification by an Italian diplomatic or consular delegation.

Referring to documents or publications previously surrendered to this or to other administrations or referring to any documentation attached to applications for other selections is not allowed.

Section 6 **Publications**

The scientific publications that the candidate wishes to enforce to the purposes of the comparative procedure, numbered in progressive order in accordance with the related list (cf. annex A), must be uploaded on IT platform with the application within the peremptory deadline fixed by s. 4. The candidate must specify which publications shown in the curriculum vitae should be considered by the Commission for the purposes of the procedure, not exceeding the maximum number established by the announcement.



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The list must match the publications supplied to the purposes of the procedure.

Only publications and texts that are accepted for publication in accordance with current Laws are considered appreciable, as well as essays included in collectanea and articles issued in journals, either printed or in electronic form, with the exception of internal notes and departmental reports.

The publications or articles accepted for publication, by the deadline of the announcement, must be submitted together with the publisher's acceptance document.

The date and place of publication or, alternatively, an ISBN code or equivalent must appear for works printed abroad.

All works printed in Italy up to 1st September 2006 must meet the requirements provided by the Royal Lieutenant Legislative Decree of 31 August 1945 no. 660; from the 2nd of September 2006 the requirements of Law 106/2006 and of D.P.R. 252/2006 must be met. The fulfilling of the above obligations must be certified by suitable documentation attached to the list of publications or by a sworn declaration issued by the candidate under his own responsibility as ruled by D.P.R. no. 445/2000.

Publications must be submitted in their original language form and translated into one of the following languages: Italian, English, French, German or Spanish. The translated texts can be supplied in typewritten form along with the printed text in the original language. For comparative evaluation procedures referring to linguistic subjects, the submission of publications will be accepted in the original language or in one of the languages for which the announcement is made, even if different from those shown in the preceding paragraph.

Section 7 **Commission of Evaluation**

By chancellor decree, based on the proposal submitted by the department requesting contract activation, a Commission of Evaluation is nominated formed by three members chosen among I and II level professors, or equivalent level, belonging to the same academic recruitment field. For the composition and the modalities of the constitution of the Commission, is to refer to the current University Regulations on the subject.

The composition of the Commission is made official when published on the website of the Athenaeum of the chancellor decree designating the Commission. Candidates may elect to decline any of the commissioners within 10 days from the date of publication.

The Commission elects a President and a Secretary among its Members.

The Commissions operates in a collegial way, acquiring its own absolute majority decisions, and may avail itself of telecommunication devices.

Section 8 **Selective procedure processing method**

The selective procedure provides for a preliminary evaluation of the candidates, with motivated analytical judgement on qualification, curriculum and scientific production, thereby including PHD thesis, according to internationally appreciated criteria and parameters, as specified by D.M no. 243 of 25.05.2011 and accepted by the judging Commission as per its s. 7.

The Commission, upon first meeting, defines in detail the criteria to be used for preliminary evaluations and for the attribution of scores to qualifications and to each of the publications presented by the candidates that are selected for public debate, still considering and honouring the parameters mentioned by the cited D.M. no. 243 of 25.05.2011.

Following preliminary evaluations, the candidates resulting comparatively worthier are admitted to public debate of their qualification and scientific production, according to the percentage of 20 per cent of the total number of candidates and, in any case, not lower than six. Should the total number of candidates be equal to or lower than six, all of these will be admitted to public debate, during which the knowledge of a foreign language will also be assessed.



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After the debate, a merit score is assigned to the qualification and to each of the publications presented by each admitted candidate; the winner will be identified based on the highest score reached.

The public debate of qualifications and scientific production will take place according to the dates indicated in the following table:

SELECTION CODE	DATE OF INTERVIEW
1 – A.D. SPS/09	16.11.2021
2 – A.D. SECS-P/07	16.11.2021
3 – A.D. SECS-P/08	17.11.2021
4 – A.D. SECS-S/01	18.01.2021
5 – A.D. M-PED/04	19.11.2021
6 – A.D. L-LIN/01	17.11.2021
7 – A.D. ING-IND/34	18.11.2021
8 – A.D. ICAR/09	18.11.2021
9 – A.D. ING-IND/22	17.11.2021
10 – A.D. IUS/08	15.11.2021

That warning has notification value and effect. Any change about the interview will be notified to successful applicants by a warning published in the University web site section “Concorsi e selezioni” (Announcements and Selections).

It is the responsibility of each candidate to monitor the site periodically by consulting the page of the notices related to this selection.

In order to withstand the debate, the candidates must hold a suitable and valid identification document.

The absence in the discussion must be considered as a waiver of competition for all purposes.

The Commission will produce and all its members will sign a special minute for each session, inclusive of attachments.

The Commission's deeds constituted by session reports, will be approved by chancellor decree, later transmitted to the competent department to the purpose of the call proposal.

Section 9 Works of the Commission

The Commission must complete its works within three months since the Chancellor's decree of appointment. The Chancellor may extend, only once and for not more than one month, the deadline for the completion of the selection on the grounds of proven reasons pointed out by the President of the Commission. If, after the deadline, the resulting deeds are not produced, the Chancellor will proceed to dismiss the Commission and will nominate a new one in replacement.

Section 10 Verification of deed regularity

The acts surrendered by the Commission are approved with chancellor decree within thirty days from delivery to the office in charge.

Should the Chancellor observe any irregularity in the deeds related to the procedure, he will return them to the Commission with a motivated provision, fixing a deadline for supplementary investigation.

The deeds, that is the final recapitulatory report of the works and the collegial judgements will be published on the Athenaeum's website.



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Section 11

Call of the selected candidate

Once the procedure is complete, the Department Council proposes the selected candidate's call within 60 days from deed approval.

The Department's proposal resolution is adopted according to the methods described in s. 12, paras 2 and 3 of Athenaeum Regulations, ruling comparative evaluation procedures for the call of fixed-term researchers in compliance with the provisions of s. 24 of Law 240/2010.

Section 12

Scope and duration of the contract

The winner stipulates a fixed-term contract of employment ruled by current legislation, also in terms of compensation, social security and welfare.

Noting that if the ministry decides not to approve the positions presented, the University will proceed with funding from its own budget except for the following procedures: SECS-P/08; SECS-S/01; ING-IND/22; IUS/08.

The application of the contracts mentioned above is subject to the positive end of the verify of the admissibility of the funding by the MIUR (D.M. 1062 of 10.08.2021) or after the verify of the cover by the University.

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

In the event of admission subject to verifying the applicant identified as the winner by the Commission, an investigation aimed at ascertaining the existence of the qualification declared in order to participate in the selection must be concluded before the signing of the contract.

The researcher will be invited, at the time of signing the contract, to sign a declaration attesting:

a) the formal commitment to carry out the planned research periods (minimum 6 months, maximum 12 months) in the company and abroad (optional), at the same time certifying that it is aware that failure to comply with the minimum term of the company period will result in the revocation of the research contract;

b) to be aware that the intervention is co-financed by the European Social Fund REACT EU - National Operational Program for Research and Innovation 2014-2020, owned by the Ministry of University and Research;

c) to be aware that failure to comply with the requirements of Ministerial Decree 1062 of 10/8/2021 allocating resources of the specification attached to the DM entails the revocation of the approved intervention and the full repayment of the amounts received;

d) to be aware that the modification of the project objectives and the expected results (if it has not been previously authorized by the MUR) involves the revocation of the approved intervention and the full repayment of the amounts already received.

The researcher must report the activity carried out in the manner and within the times indicated by the Disciplinary of Implementation attached to Ministerial Decree 1062 of 10/8/2021.

The taking of service must in any case take place, unless extended by the MUR, by 01.02.2022.

Furthermore, the University will provide insurance coverage as expressly provided for by the Law.

The compensation is equal to the initial sums appertaining to full-time confirmed researchers (gross yearly salary of Euro 36.344,05, including 13th month pay).

The contract is for three years renewable for two years for a one-time after the successful evaluation of the teaching and research activities, on the basis of methods, criteria and parameters defined by the Italian D.M. No. 242 dated 24 May 2011.

The social security and pension scheme is granted to the researcher on the basis of current legislation for fixed-term employment; he is granted whatever provided for by D.Lgs no. 151/2001 in matter of tutelage and assistance to maternity and paternity of Law 104/1992; in matter of assistance, social integration and rights of disabled people as per ss. 3, 40 and 68 of D.P.R. no. 3/57 as modified; in



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matter of extraordinary leave of absence and infirmity leaves. Infirmity leaves may not exceed a time length of 12 months.

A 6-months' probation period is applied; the deliberating collegial body of the pertinent structure is competent for its positive or negative evaluation; the probation period cannot be renewed or extended upon expiry.

During the probation period, each party may terminate the contract giving reasons at any moment and without commitment to any advance notice.

In case of early contract termination, the researcher is required to give a 30 days advance notice. The redundancy period may start on the first or the 16th day of each month. In case no advance notice is given, the Administration has the right to withhold an amount corresponding to the employee's compensation for such lacking period.

Section 13 **Work relationship**

For the purposes of financial reporting of research projects, the figurative quantification of annual research, study, and teaching activities, with the related preparatory, verification, and organizational tasks, is equal to 1,500 hours for full-time researchers and 750 hours for part-time researchers. The total annual commitment for the conduct of educational activities, supplementary teaching, and service to students is 350 hours for full-time basis and 200 hours for part-time basis.

The fixed-term researcher:

- carries out a scientific research activity within the sector identified by his profile;
- carries out didactical activities, honouring current legislation and Athenaeum Regulations, in accordance with the resolutions of competent Bodies;
- takes part to Commissions for the verification of students' advancement and final test for the achievement of educational qualifications released by the University, also providing aid in the development of theses;
- carries out student tutoring and guidance tasks to the purpose of organize the plan of studies, establishing a reception calendar;
- may assume responsibility functions in research projects according to and in respect of current Laws;
- takes part to Departmental activities and to didactic Commission meetings based on the modalities disciplined by specific Regulations.

The self-certification of educational activity, integrative didactics and services to students occurs by filling out the register of lessons (for upfront educational activities) and any other register (for all other activities related to didactics).

Disciplinary competence is ruled by s. 10 of Law 240/2010 and from s. 32 of the Statute.

Section 14 **Incompatibility regime and multiple assignments**

In addition to the incompatibility regime pursuant to art. 6, paragraph 9 of Law 240/2010, fixed-term researcher contracts are not compatible with:

- any other employment entertained with any public or private subject;
- ownership of research grants, even if at other Universities;
- ownership of didactic contracts disciplined on the matter by current legislation;
- doctoral or postdoctoral fellowships;
- any fellowship or grant, in general, bestowed on any grounds.

Researchers are allowed to carry out extra-work assignments as regulated in the Athenaeum Regulations provisions in terms of releasing authorizations for the bestowal of paid assignments to professors and researchers.

Fixed-term researcher contracts do not give rise to any right in terms of access to academic roles.



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Employees of Public Administrations, over the entire duration period of the contract pertaining to this announcement, are put on leave, without grants nor social security coverage or, otherwise, in untenured position, where such position is considered possible by membership regulations.

Section 15 Evaluation and Contract Extension

The evaluation of teaching and research activities carried out by holders of contracts is delegated to a Commission and takes place according to the criteria and parameters established by art. 2 of the Italian D.M. No. 242 dated 24 May 2011; it is a prerequisite for the possible extension of the contract.

Within the resources available for planning, the Organisation that made the proposal to call the owner of this agreement may, with the consent of the candidate, propose the extension of the contract during the six months prior to its expiry for only once and for only two years, justifying it with reference to teaching and research needs.

If the assessment is successful, the extension proposal shall be submitted to the approval of the Board of Directors.

Section 16 Handling 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. no. 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 possible contract drafting, as well as management of the following employment position, in compliance with current regulations. Data will be kept for the necessary time to accomplish the selection purposes, subject to the application of norms on document retention, and will be transferred uniquely to public administration bodies directly concerned with the juridical and economic position of the selected applicant, treated in compliance with current regulations and used for personal, welfare, insurance and fiscal position management. Data will be handled by appointed staff through the acquisition of printed and electronic documents and using, even digitalised, filing procedures, to guarantee confidentiality; data treatment will be carried out through a coordinated organization and processing system, applying elevated safety standards. Furthermore, data will not be used for profiling. Applicants who have provided their personal data will be able to access it and exercise their rights as by art. 16 to 22 of GDPR UE 2016/679. Any safeguard request can be addressed to the University Data Protection Officer, who can be contacted through the university website (Privacy and Personal Data Protection section), e-mail dpo@unibg.it. In addition to the right of complaint which can be presented to the Italian Data Protection Authority, Piazza Venezia 11, 00187 Roma.

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

Section 17 Advertisement

This announcement is published in the Gazzetta Ufficiale IV Special Series - Contests and exams, on the MUR and European Union websites as per s. 24, para 2 letter b) of Law 240/2010 in form of notice and in the Official Register of the University of Bergamo.



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The full contest announcement and any related forms will be published online at the University website <http://www.unibg.it> in the special section *Concorsi e selezioni (Announcements and Selections)*.

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.

Section 18

Manager of the procedure

The person in charge for the selection procedure in this announcement is Dr. Domenico Panetta, Manager of "Area Risorse Umane" (Human Resources Director), Via dei Caniana, 2 - 24127 Bergamo, telephone 035 2052 876, electronic mail address: selezionipersonale@unibg.it.

Section 19

Final provisions

Anything not explicitly provided for by this announcement is ruled by Law. 240/2010 as amended and supplemented, the Athenaeum Regulations in terms of recruitment of fixed-term university researchers, current university legislation, as well as the legislation related to employments at public administrations.

Further information may be requested at the office Area risorse umane – Gestione carriere e concorsi docenti e ricercatori (Human Resources Management Area - Selections office and legal management for professors and researchers), Via dei Caniana, 2 - 24127 Bergamo, e-mail selezionipersonale@unibg.it - telephone 035 2052 876.

THE CHANCELLOR
(Professor Remo Morzenti Pellegrini)
Documento firmato digitalmente
ai sensi dell'art. 24 del D. Lgs. 82/2005