

## **FREE UNIVERSITY OF BOZEN-BOLZANO**

### **SELECTION PROCEDURES for the conferral of**

**10**

### **fixed-time RESEARCH ASSISTANT CONTRACT for COLLABORATION at RESEARCH ACTIVITY**

Rector's Decree  
of 19.12.2019  
no. 811/2019

# FREE UNIVERSITY OF BOZEN-BOLZANO

## RECTOR'S DECREE

no. 811/2019

---

Selection procedures for the awarding of 10 fixed-time research assistant contract for collaboration at research activity

### THE RECTOR

**IN VIEW OF** the Statute of the Free University of Bozen-Bolzano;

**IN VIEW OF** the law 30th December 2010, no. 240, stating "Provisions concerning the organization of universities, academic personnel and recruitment, as well as the delegation of the Government for providing incentives for the quality and efficiency of the university system", and in particular its art. 22 concerning the awarding of research assistant contracts for the performance of research activity;

**IN VIEW OF** the Ministerial Decree 9th March 2011, no. 102, determining the gross minimum amount of the research assistant contract advertised according to Art. 22 of the law 30th December 2010, no. 240;

**IN VIEW OF** the 'Regulation of the research assistant contracts according to Art. 22 of the law 240/2010, in force;

**IN VIEW OF** the 'Regulation concerning the remuneration of researcher and holder of research assistant contracts, in force;

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 287/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector AGR/08 (Agricultural hydraulics and watershed protection);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 294/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector AGR/13 (Agricultural chemistry);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 290/2019, requesting the awarding of 2 fixed-time research assistant contracts for collaboration at research activity in the disciplinary-scientific sector AGR/15 (Food science and technology);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 292/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector AGR/16 (Agricultural Microbiology);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 291/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector CHIM/06 (Organic chemistry);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 288/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector ING-IND/11 (Building Physics and Building Energy Systems);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 293/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector ING-IND/14 (Mechanical design and machine construction);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 12.12.2019, no. 289/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector ING-INF/01 (Electronics);

**IN VIEW OF** the deliberation of the Faculty Council of the Faculty of Science and Technology from 30.10.2019, no. 256/2019, requesting the awarding of 1 fixed-time research assistant contract for collaboration at research activity in the disciplinary-scientific sector ING-INF/04 (Systems and Control Engineering);

**VERIFIED** that the fixed-time research assistant contracts for collaboration at research activity requested by the Faculty enjoy the necessary financial backing;

## **DECREES**

### **Art. 1**

#### *Object of the selection procedure*

The Free University of Bolzano, hereinafter referred to as University, announces 9 selection procedures for the awarding of 10 fixed-time research assistant contract for collaboration at research activity:

#### **1. Faculty of Science and Technology**

**Number of places:** 1

**PIS:** 156847 (TN2274) +156848 (TN2274)

**CUP:** I54I18000280001

**Supervisor:** Prof. Francesco Comiti

**Academic recruitment field:** 07/C1 (Agricultural, forest and biosystems engineering)

**Academic discipline:** AGR/08 (Agricultural hydraulics and watershed protection)

**Title of research project:** WATER mixing in the critical ZONE: observations and predictions under environmental changes (WATZON) - PRIN 2017

**Research activity:** Hydrological and ecohydrological monitoring by means of stable water isotopes in catchments of South Tyrol.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 20.000,00 Euro

**Duration of the contract:** 12 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

PhD or equivalent foreign study title in Environmental, agricultural, forest, geological sciences or environmental engineering or a neighboring field

Research methods and capabilities/abilities:

Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects).

Competences in the field Hydrology or ecohydrology

**Type of selection:** based on qualifications and oral exam

**Assessment criteria:**

Academic titles (max. 20 points):

- PhD or equivalent foreign study title in Hydrology or Ecohydrology (max. 20 points)

Research methods and capabilities/abilities (max. 30 points):

- Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects) (max. 15 points)
- Competences in the field Hydrology or ecohydrology (max. 15 points)

Research and work experience (max. 10 points):

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 10 points)

Publications and scientific contributions (max. 20 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications.

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Oral exam:**

Language of the oral exam: English

Duration of the oral exam (minutes): 30

**Object of the exam:**

The exam will be on:

candidate's previous research experience and careers; candidate's scientific and professional experience with respect to the subjects connected to the research project of the call; candidate's knowledge of research methods connected to the research project of the call

**Criteria for the evaluation of the Oral Exam:**

Maximum total score: 20 points

The Commission evaluates:

the methodological accuracy; the degree of mastery in the discussion of one's own scientific output; candidate's knowledge of research methods connected to the research project of the call; the exposition clarity.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 80 points**

**Total minimum score necessary for admission to the oral exams: 40 points**

**Total maximum score for the entire valuation (oral exam included): 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 60 points**

## 2. Faculty of Science and Technology

**Number of places:** 1

**PIS:** 157330 (TN2266)

**CUP:** I54I18000210001

**Supervisor:** Dr. Youry Pii

**Academic recruitment field:** 07/E1 (Agricultural chemistry, agricultural genetics and pedology)

**Academic discipline:** AGR/13 (Agricultural chemistry)

**Title of research project:** Use of protein-hydrolysates as biostimulants of vegetable crops: elucidating their mode of action and optimizing their effectiveness through a multidisciplinary approach (PHOBOS)

**Research activity:** The main objectives of PHOBOS will be the characterization of the biostimulant activities produced by plant protein hydrolysates on vegetable crops, as for instance lettuce and tomato. In particular, the molecular effects will be investigated, by applying analytical techniques as real-time RT-PCR on target genes and genome-wide transcriptomics. In addition, the treatments with biostimulants will also be evaluated for their effects on the selection of both epiphytic and rhizosphere microbial communities.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 21.603,44 Euro

**Duration of the contract:** 24 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Biology, Biotechnology or Agricultural Sciences or a neighboring field

Research methods and capabilities/abilities:

Competences in the field Biology, Biotechnology or Agricultural Sciences

**Preferential title:** PhD or equivalent foreign study title in Biology, Biotechnology or Agricultural Sciences or a neighboring field.

**Type of selection:** based on qualifications and oral exam

**Assessment criteria:**

Academic titles (max. 15 points):

- Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Biology, Biotechnology or Agricultural Sciences (max. 10 points)
- PhD or equivalent foreign study title in Biology, Biotechnology or Agricultural Sciences (max. 5 points)

Research methods and capabilities/abilities (max. 20 points):

- Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects) (max. 20 points)

Publications and scientific contributions (max. 25 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications.

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Oral exam:**

Language of the oral exam: Italian and/or English

Duration of the oral exam (minutes): 30

**Object of the exam:**

The exam will be on:

candidate's previous research experience and careers; candidate's scientific and professional experience with respect to the subjects connected to the research project of the call; candidate's knowledge of research methods connected to the research project of the call.

**Criteria for the evaluation of the Oral Exam:**

Maximum total score: 40 points

The Commission evaluates:

the methodological accuracy; the degree of mastery in the discussion of one's own scientific output; candidate's knowledge of research methods connected to the research project of the call; the exposition clarity.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 60 points**

**Total minimum score necessary for admission to the oral exams: 40 points**

**Total maximum score for the entire valuation (oral exam included): 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 70 points**

---

### **3. Faculty of Science and Technology**

**Number of places: 2**

**PIS:** 156728 (pos. 1); 156729 (pos. 2); Centro di costo TN820C  
156730 (pos. 1); 156731 (pos. 2); Centro di costo TN2404 FP

**CUP:** B83G13000420003

**Supervisor:** Prof. Scampicchio Matteo

**Academic recruitment field:** 07/F1 (Food science and technology)

**Academic discipline:** AGR/15 (Food science and technology)

**Title of research project:** Food technology

**Research activity:** The research activity of this project consists on the use of rapid analytical methods, including electroanalytical sensors, in order to determine the antioxidant power of foods and food ingredients.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen, NOI Tech Park

**The gross annual remuneration:** 24.000,00 Euro

**Duration of the contract:** 12 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Food Engineering

Research methods and capabilities/abilities:

Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects).

Competences in the field Liquid chromatography (HPLC) and electrochemical methods

Research and work experience:

Research experience in the area of Food as documented in the curriculum vitae by publications, working papers, project management and participation in international conferences

Software skills:

Experience with the following software for research: Excel and Software NOVA

**Preferential title:** PhD or equivalent foreign study title in Food technology

**Type of selection:** based on qualifications and oral exam

**Assessment criteria:**

Academic titles (max. 15 points):

- Bachelor (BSc or BA) or equivalent foreign study title in Food Engineering (max. 5 points)
- Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Food Engineering (max. 5 points)
- Final degree mark MSc or MA (max. 5 points)

Research methods and capabilities/abilities (max. 20 points):

- Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects) (max. 10 points)
- Competences in the field of Food Engineering, as documented in the curriculum vitae through training certificates, publications and participation in research projects, provided that they include the year of acquisition of the title and the name of the organisation that awarded the title (max. 5 points)
- Skills in the use of qualitative and/or quantitative research software (max. 5 points)

Research and work experience (max. 5 points):

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 5 points)

Specific criteria (max. 10 points):

- Skills in the electroanalytical techniques and in particular on the use of cyclic voltammetry for the analysis of the antioxidant power of foods, as documented in the curriculum vitae through training

certificates, publications and participation in research projects, which demonstrate specific knowledge of the above techniques (max. 10 points)

Publications and scientific contributions (max. 10 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

Professional skills and specific field expertise (max. 10 points):

- Experience in specific professional or business fields as documented by the activities listed in the CV (max. 10 points)

**Oral exam:**

Language of the oral exam: English

Duration of the oral exam (minutes): 30

**Object of the exam:**

The exam will be on:

candidate's previous research experience and careers; candidate's scientific and professional experience with respect to the subjects connected to the research project of the call; candidate's knowledge of research methods connected to the research project of the call.

**Criteria for the evaluation of the Oral Exam:**

Maximum total score: 30

The Commission evaluates:

the methodological accuracy; the degree of mastery in the discussion of one's own scientific output; candidate's knowledge of research methods connected to the research project of the call; the exposition clarity.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 70 points**

**Total minimum score necessary for admission to the oral exams: 40 points**

**Total maximum score for the entire valuation (oral exam included): 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 60 points**

---

#### **4. Faculty of Science and Technology**

**Number of places: 1**

**PIS: 156689 (TN201G)**

**CUP: I54I19001020005**

**Supervisor: Dr. Ventura Maurizio**



**Academic recruitment field:** 07/I1 (Agricultural microbiology)

**Academic discipline:** AGR/16 (Agricultural Microbiology)

**Title of research project:** Effect of Increased N depositions on Soil microbial communities through DNA- and RNA-based techniques in mountain forest Ecosystems

**Research activity:** Metagenomics analysis of the microbial communities in forest soils under different fertilization management, and Real Time PCR quantification of the functional genes related to N-cycle.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 24.000,00 Euro

**Duration of the contract:** 12 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

PhD or equivalent foreign study title in Biological Sciences, environmental sciences, environmental engineering or a neighboring field.

**Type of selection:** based on qualifications and oral exam

**Assessment criteria:**

Academic titles (max. 15 points):

- Master (MSc or MA ) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Natural Sciences, Biological Science, Environmental Engineering (max. 3 points)
- Masters (post-graduate certificates of a one/two years course program), postgraduate specialization courses, scholarships and research grants especially in fields related to the research topics of the advertised position and national or international research awards and distinction (max. 2 point)
- PhD or equivalent foreign study title in Microbial ecology or environmental engineering or a neighboring field (max. 10 points)

Research and work experience (max. 35 points):

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 35 points)

Publications and scientific contributions (max. 20 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications.

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the

authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Oral exam:**

Language of the oral exam: Italian

Duration of the oral exam (minutes): 30

**Object of the exam:**

The exam will be on:

- a) on the discussion of candidates' titles and publications;
- b) deepening the candidate's scientific and professional experience.

**Criteria for the evaluation of the Oral Exam:**

Maximum total score: 30 points

The Commission evaluates:

- the methodological accuracy; the degree of mastery in the discussion of one's own scientific output; candidate's knowledge of research methods connected to the research project of the call; the exposition clarity (max. 20 points)
- During the oral exam the language proficiency of the candidate in the languages specified as object of the exam will be evaluated based on comprehension, speaking skills, fluency of the presentation and knowledge of specialized terminology (max. 10 points)

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 70 points**

**Total minimum score necessary for admission to the oral exams: 35 points**

**Total maximum score for the entire valuation (oral exam included): 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 50 points**

---

## 5. Faculty of Science and Technology

**Number of places: 1**

**PIS:** 156762 (TN2257)

**CUP:** I54I18000060002

**Supervisor:** Dr. Benini

**Academic recruitment field:** 03/C1 (Organic chemistry)

**Academic discipline:** CHIM/06 (Organic chemistry)

**Title of research project:** SupErA - Siderophore mediated iron uptake in *Erwinia amylovora* and *Aspergillus fumigatus*. Towards new strategies in plant and human health

**Research activity:** Structural and functional characterization of enzymes, protein purification and crystallization.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 24.000,00 Euro

**Duration of the contract:** 12 months. Renewable for one time for 12 months, provided that the performed activity received a positive evaluation and the necessary funds are available.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

PhD or equivalent foreign study title in chemistry, physics, biology, agricultural science, pharmacy or crystallography or a neighboring field.

Research methods and capabilities/abilities:

Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects).

Competences in the field: protein purification and characterization

Language skills:

Language certificate at level B2 for English according to the attached list of "Recognized language certificates and diplomas used in selection procedures and required for the award of financial benefits for language competence" (or native speaker)

**Type of selection:** based on qualifications

**Assessment criteria:**

Academic titles (max. 55 points):

- Master (MSc or MA ) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in chemistry, physics, biology, agricultural science, pharmacy or crystallography or a neighboring field (max. 20 points)
- Masters (post-graduate certificates of a one/two years course program), postgraduate specialization courses, scholarships and research grants especially in fields related to the research topics of the advertised position and national or international research awards and distinction (max. 5 points)
- PhD or equivalent foreign study title in chemistry, physics, biology, agricultural science, pharmacy or crystallography or a neighboring field (max. 30 points)

Research methods and capabilities/abilities (max. 25 points):

- Competences in the field: Research experience acquired on the specific topic of the research project through contracts, scholarships and assignments in domestic corporations, international or foreign corporations or at private institutions or companionships which perform attested research activity, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 25 points)

Publications and scientific contributions (max. 20 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency:** 100 points

**Total minimum score in order to declare the candidate suitable for the position:** 55 points

---

## 6. Faculty of Science and Technology

**Number of places:** 1

**PIS:** 156830 (TN820B) + 156831 (TN2269)

**CUP:** B83G13000420003 + I54I18000320007

**Supervisor:** Prof. Gasparella Andrea

**Academic recruitment field:** 09/C2 (Thermal sciences, energy technology and building physics)

**Academic discipline:** ING-IND/11 (Building Physics and Building Energy Systems)

**Title of research project:** Building energy efficiency and indoor environmental quality; MASS CUSTOMIZATION 4.0 - development and diffusion of Mass Customization and Tailoring (MCT) competences, to provide SMEs with advanced expertise and tools to better adapt products and services to user needs and quicker respond to industry 4.0 change

**Research activity:** Study of energy efficiency and non-energy performance of buildings through the experimental and numerical evaluation of the characteristics of materials, components and systems and physical phenomena, optimizing design and management in order to maintain and improve indoor environmental conditions for occupants - in particular regarding thermo-hygrometric comfort, visual, acoustic and air quality, and at the same time reducing the energy and environmental impact of the buildings themselves. The activity consists (1) in the design and settling of experimental measurement systems; (2) in the collection and analysis of experimental data; (3) in the energy and multiphysics modeling of phenomena, components, systems up to the building scale; (4) in the analysis of the results with statistical techniques; (5) in reporting, presentation and publication of results for internal use, or for external use, both for scientific and non-scientific public.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 25.000,00 Euro

**Duration of the contract:** 12 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Engineering or Architecture or a neighboring field

Specific requirements:

Proven track record in research activities or work experience in the research field of building energy performance and occupants' comfort in the built environment.

**Preferential title:** PhD or equivalent foreign study title in ING-IND/11 (Building Physics and Building Energy Systems)

**Type of selection:** based on qualifications

**Assessment criteria:****Academic titles (max. 40 points):**

- Final degree mark MSc or MA (max. 10 points)
- Masters (post-graduate certificates of a one/two years course program), postgraduate specialization courses, scholarships and research grants especially in fields related to the research topics of the advertised position and national or international research awards and distinction (max. 15 points)
- PhD or equivalent foreign study title in ING-IND/11 (Building Physics and Building Energy Systems) or a neighboring field (max. 15 points)

**Research and work experience (max. 24 points):**

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 12 points)
- Work experience in corporate research units, membership to research centers and assignments in national or international corporations, or at private institutions or companionships which perform attested research activity, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 12 points)

**Publications and scientific contributions (max. 36 points):**

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications.

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 40 points**

---

## 7. Faculty of Science and Technology

**Number of places: 1**

**PIS: 156909 (TN2248)**

**CUP: I56C18001390006**

**Supervisor: Prof. Concli Franco**

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

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

**Title of research project: Innovative Design for Reliable Planet Bearings (IDERPLANE)**

**Research activity: This research activity includes:**

- Development and implementation of FE models

- Calculation of the contact pressures in bearings

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 21.000,00 Euro

**Duration of the contract:** 12 months. Non-renewable.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Mechanical Engineering or a neighboring field

Research methods and capabilities/abilities:

Competences in the field: Material Characterization, FEM, Experiments

Software skills:

Experience with the following software for research: Code\_Aster/Salome\_Meca, Matlab

Language skills:

Language certificate at level B2 for English according to the attached list of "Recognized language certificates and diplomas used in selection procedures and required for the award of financial benefits for language competence" (or native speaker)

Language certificate at level C1 for Italian according to the attached list of "Recognized language certificates and diplomas used in selection procedures and required for the award of financial benefits for language competence" (or native speaker)

**Preferential title:** PhD or equivalent foreign study title in Mechanical Engineering

**Type of selection:** based on qualifications

**Assessment criteria:**

Academic titles (max. 50 points):

- Bachelor (BSc or BA) or equivalent foreign study title in Mechanical Engineering or a neighboring field (max. 20 points)
- Master (MSc or MA ) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Mechanical Engineering or a neighboring field (max. 30 points)

Research methods and capabilities/abilities (max. 30 points):

- Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects) (max. 10 points)
- Competences in the field: Finite Elements (max. 10 points)
- Skills in the use of qualitative and/or) quantitative research software (max. 10 points)

Research and work experience (max. 10 points):

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 5 points)
- Work experience in corporate research units, membership to research centers and assignments in national or international corporations, or at private institutions or companionships which perform attested research activity, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 5 points)

Publications and scientific contributions (max. 5 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

Language proficiency (max. 5 points):

Level of language proficiency in the languages required for the advertised position (max. 5 points)

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 60 points**

---

## **8. Faculty of Science and Technology**

**Number of places: 1**

**PIS:** 156767 (TN2093) + 156771 (TN2426)

**CUP:** I52F17001390005

**Supervisor:** Prof. Paolo Lugli

**Academic recruitment field:** 09/E3 (Electronics)

**Academic discipline:** ING-INF/01 (Electronics)

**Title of research project:** Design and realization of electronic components on flexible substrate

**Research activity:** Objective of the project is the development of simulation and printing techniques for the design and fabrication of electronic components on flexible substrates (e.g. plastic). The research activity will focus on the modeling of components such as sensors, transistors and solar cells using commercial or in-house simulators, as well as on their fabrication via printing technologies. The following activities are planned: a) development of physical models and their integration in simulators; b) fabrication of sensors (bio, gas, temperature and humidity), transistors and/or solar cells on flexible substrates; c) characterization and simulations of the built components.

Additional research activities in the context of other research projects on similar topics may be defined in due course with the mutual agreement between research assistant and supervisor. If the supervision of this activity taking place within another project is done in detail by a different professor/researcher, the main supervisor has to explicitly countersign the part of the report regarding the activity on additional research projects.

**Place of work:** Bolzano-Bozen

**The gross annual remuneration:** 29.000,00 Euro

**Duration of the contract:** 12 months. Possible extension until 31.07.2021, whereas such an extension of the contract is necessary to complete the project and is subject to a positive assessment of the activity performed, as well as the availability of financial resources.

**Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

Academic titles:

Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Electronic engineering, physics, material sciences, biotechnology or chemical engineering or a neighboring field

Specific requirements:

The candidate must demonstrate adequate knowledge, as demonstrated by research activity as described in the call, both on the theoretical and technical-methodological level attested by a sufficient number of scientific publications.

**Preferential title:** PhD or equivalent foreign study title in Electronic engineering, physics, material sciences, biotechnology or chemical engineering or a neighboring field.

**Type of selection:** based on qualifications

**Assessment criteria:**

Academic titles (max. 30 points):

- Master (MSc or MA) (or final degree following the study conditions valid before the M.D. 509/99) or equivalent foreign study title in Electronic engineering, physics, material sciences, biotechnology or chemical engineering or a neighboring field (max. 15 points)
- PhD or equivalent foreign study title in Electronic engineering, physics, material sciences, biotechnology or chemical engineering or a neighboring field (max. 15 points)

Research methods and capabilities/abilities (max. 15 points):

- Experience with <quantitative and/or qualitative> research methods as documented in the curriculum vitae (e.g. education, certificates, reports and publications, participation to projects) (max. 15 points)

Research and work experience (max. 15 points):

- Research experience acquired on the specific topic of the research project through contracts, scholarships at universities or research centers, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate (max. 15 points)

Publications and scientific contributions (max. 40 points):

Publications and scientific contributions are evaluated according to the following criteria:

a) originality, innovation, relevance to the objectives of the research project, methodological clarity and importance; b) continuity in scientific production; c) congruence of the publications with the competition sector; d) scientific relevance of the publications editorial classification and their diffusion among the scientific community; e) if possible, contribution of the applicant to the publications.

Maximum 10 publications evaluated.

Criteria for determining the part of the candidate in publications with more than one author:

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text or from the established practice of the sector, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of the three criteria mentioned above the contribution among the various authors is considered equally weighted.

**Total maximum score for the evaluation of titles, publications, portfolio, professional skills and language proficiency: 100 points**

**Total minimum score in order to declare the candidate suitable for the position: 40 points**



## 9. Faculty of Science and Technology

**Number of places:** 1

**PIS:** TN2804 PIS 155219 (6 Monate/6 mesi/6 months)  
TN2241 PIS 155224 (5 Monate/5 mesi/5 months)  
TN2409 PIS 155225 (3 Monate/3 mesi/3 months)

**CUP:** I52F17001040005 (TN2804)  
I53C18000010009 (TN2241)

**Supervisor:** Prof. Karl von Ellenrieder

**Disciplinary-scientific sector:** ING-INF/04 (Systems and Control Engineering)

**Competition sector:** 09/G1 (Systems and Control Engineering)

**Title of research project:** Field Robotics South-Tyrol Laboratory; FIRST Lab

### **Description of the research activity:**

The effort will involve research in support of the overall goal of developing field robot platforms and systems:

- Dynamic modeling and simulation (e.g. in Matlab and Simulink)
- Low-level control
- Set up and management of the lab.
- Field testing

Publication of scholarly results and assistance with proposal writing on topics in robotics, in particular field robotics.

Additional research activities in the context of other research projects on similar topics to be defined in due course with mutual agreement and the previous consent of the supervisor of the main research project. If the supervision of the related project is done in detail by another researcher/professor, the main supervisor, prof. von Ellenrieder, has to countersign explicitly the part of the report regarding the activity on related research projects.

### **Minimum curricular requirements necessary in order to carry out the research with details of the scientific and professional profile required for the research activity:**

- Msc or equivalent foreign study title in:
  - 1) academic discipline ING-INF/04 (Systems and Control Engineering); or
  - 2) a related 09/A field, such as Mechanical Engineering, Aeronautical or Aerospace Engineering, Ocean/Marine Engineering coupled with a strong educational and research background in ING-INF/04 topics.
- Experience in Dynamic modeling and simulation
- Experience performing experimental robotics work

**Preferential title:** PhD or equivalent foreign study title in Systems and Control Engineering (SSD ING-INF/04) or related fields.

**Type of selection:** By qualifications

### **Assessment criteria (max. 100 points):**

#### **Academic degrees (max. 42 points):**

- Master's Degree or equivalent foreign study title in a discipline involving ING-INF/04 topics: max. 12 points;
- Masters (postgraduate certificates of a one/two years course program), postgraduate specialization courses, scholarships and research grants and awards, max. 5 points;
- PhD or equivalent foreign study title in a field consistent with this announcement max. 25 points;

Publications (max. 36 points):

Maximum 10 publications evaluated.

- Originality, innovativeness, methodological rigor and relevance of each scientific publication;
- Congruence of each publication with the competition sector;
- Scientific relevance of each publication's editorial classification and their diffusion among the scientific community;
- Contribution of the candidate in publications with more than one author.

Research and practical experience (max. 22 points):

Research experience acquired on the specific topic of the research project through contracts, scholarships and assignments in domestic corporations, international or foreign corporations or at private institutions or companionships which perform attested research activity, as long as the beginning and the duration of the collaboration is evidenced as well as other qualifications that attest the evidenced professionalism of the candidate.

- Experience (professional or project) in the areas of robotics and automatic control;
- Research activities (e.g. research grants at the university level or research positions at major research institutions) in robotics/unmanned vehicle systems
- Participation as a speaker at national and international conferences

**Criteria for determining the part of the candidate in publications with more than one author:**

For publications with multiple authors, the individual contribution of the candidate, if not obvious from the text, is determined based on a duly signed statement of the authors of the work on the contribution of the individual. In the absence of such a declaration, the contribution among the various authors will be considered equally weighted.

**Total minimum score in order to declare the candidate suitable for the position: 65**

**Place of work:** Bolzano- Bozen

**The gross annual remuneration:** 24.965,00 €

**Duration of the contract:** 12 months.

---

**Art. 2**

*Requirements for admission*

- 1) Candidates must have completed the requirements at the expiry date for submission of the applications for admission to the selection procedure.

The Commission of selection, for the sole purpose of the aims of the present selection procedure, will evaluate the equipollence of the candidate's qualification title conferred abroad.

Italian citizenship is not required.

**Art. 3**

*Accumulation prohibition*

- 1) The research assistant contract may not be combined with awarded study grants, except those awarded by national or foreign institutions to integrate the research activity for stays abroad, and with other research assistant contracts awarded by other institutions.

**Art. 4**

*Incompatibility and compatibility*

- 1) The following cannot be holder of research assistant contracts:
  - a) the personnel of the University, of public research and experimentation institutions and bodies, of the Agency for the New Technologies, Energy and Sustainable Economic Development (ENEA) and of the Italian Space Agency (ASI), as well as of institutions whose degree of scientific specialization has been recognized as equipollent to the qualification of research doctor following Art. 74, paragraph 4, of the DPR no. 382/1980;
  - b) the personnel in service by public administrations other than those indicated in letter a), except in case of unpaid leave by that administration, for the period of length of the research assistant contract;
  - c) relative or relative by marriage up to the fourth degree, with a professor of the Department awarding the research assistant contract, with the Rector, the Director or with a member of the University Council of the University;
  - d) those attending university courses (triennial university degree or university degree pre-reform regime), a specialist or magister degree, a research doctorate with grant or medical specialization, in Italy or abroad.
- 2) The research assistant contract is furthermore incompatible with other contracts for research activities conferred by the Free University of Bozen-Bolzano.
- 3) The conferral of a research assistant contract is compatible with a collaboration contract or an intellectual work contract for research activities awarded by other universities and institutes in Italy and abroad, by approval of the supervisor.
- 4) When the research assistant signs the contract he has to submit a declaration as per D.P.R. 445/2000 which lists the previous research assistant contracts and states that he is not in a situation of incompatibility.

#### **Art. 5**

##### *Conditions for presenting the application for participation and publications*

- 1) To participate in the selection procedures in the disciplinary-scientific sectors **AGR/08 (Agricultural hydraulics and watershed protection)** and **CHIM/06 (Organic chemistry)** candidates must fill in an application form in unstamped paper, according to the model of attachment 'A' and available on the web page of the University: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/?group=18>

within **January 22, 2020.**

To participate in the selection procedures in the disciplinary-scientific sectors **AGR/15 (Food science and technology)**, **AGR/16 (Agricultural Microbiology)**, **ING-IND/11 (Building Physics and Building Energy Systems)**, **ING-IND/14 (Mechanical design and machine construction)**, **ING-INF/01 (Electronics)** and **ING-INF/04 (Systems and Control Engineering)** candidates must fill in an application form in unstamped paper, according to the model of attachment 'A' and available on the web page of the University: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/?group=18>

within **January 7, 2020.**

To participate in the selection procedure in the disciplinary-scientific sector **AGR/13 (Agricultural chemistry)** candidates must fill in an application form in unstamped paper, according to the model of attachment 'A' and available on the web page of the University: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/?group=18>

within **February 6, 2020.**

- 2) The application, duly dated and handwritten signed at the last page, must be addressed to:

Free University of Bozen – Bolzano  
 Personnel Office Academic Staff (call)  
 Piazza Università, 1 - C. P. 276  
 39100 Bozen-Bolzano

## *Italy*

The application for participation in the selection procedures may also be directly handed in (opening hours: from Monday to Friday from 8:30 a.m. to 12:30 a.m. and on Monday, Tuesday and Thursday from 2 p.m. to 5 p.m.) or sent by post with registered letter with notification of reception or any other form appropriate to certify the reception (**personnel\_academic@pec.unibz.it, only if sent from a pec - posta elettronica certificata - account; max. weight of the PEC: 80 MB**) within the above mentioned final date. Therefore shall be considered proof the date stamp of the accepting post office according to the D.P.R. 28th December 1970, no. 1077.

The University disclaims liability for possible postal mis-deliveries.

### **Applications sent by e-mail won't be considered.**

**The candidate is obligated to add to the application in paper form, a data carrier (memory-stick or cd) which contains a digital copy of all documents produced (the same holds true for the publications).**

- 3) On the package the candidate, in addition to the requirements mentioned in paragraph 2, must affix the inscription: "Application: selection procedure for the awarding of a fixed-time research assistant contract for collaboration at research activity" and accurately indicate the faculty, the initials and the denomination of the disciplinary-scientific sector, the title of the research project and the candidate's name, surname and address for the present selection procedure (the address for the present selection procedure is the candidate's elected domicile for the receipt of the communications relating to this procedure).
- 4) On the application (see attachment 'A') the candidate must clearly indicate her/his name and surname and must declare, under own responsibility:
  - a) the date and place of birth;
  - b) the code of personal identification (fiscal code);
  - c) the residence, with the indication of the street, the street number, the town, the province, the postcode;
  - d) the possessed citizenship;
  - e) the municipality on whose electoral lists she/he is registered or the reasons for the non-registration or cancellation from such lists.

Foreign nationals must declare to enjoy civil and political rights in the country on which they belong;
  - f) not having been convicted of criminal offences;
  - g) not having pending criminal suits or received criminal sentences and not currently undergoing criminal proceedings (otherwise to indicate);
  - h) to have viewed the advertisement to which this selection procedure refers and accepts all its provisions;
  - i) that the content of the digital copies of all documents produced correspond to the content of the copies produced on paper;
  - j) that the publications on the data carrier conform to the original
  - k) not to be a university professor of the first and second rank or a researcher employed with open-ended contract, even if ceased from service in Italy;
  - l) to be employee at the following public administration....
  - m) that everything in the curriculum vitae (CV) that has been attached to this application is true and s/he gives the person in charge of the selection procedure the permission to undertake any checks on any substitute declarations that have been presented by the undersigned for the purposes of this selection procedure;
  - n) not to exceed the superior limit of twelve years, also non continuous periods, therefore considering the total duration of the contracts under Art. 22 (Research grants) and Art. 24 (Fixed-time researchers) of the law 30th December 2010, no. 240, also between different universities, public, non public or telematic ones, and with bodies as provided in Art. 22, paragraph 1 of the law no. 240/2010, as well as the duration of the contract according to the present call;

- o) not to exceed the total duration of 6 years of the contracts under Art. 22 of the law 30th December 2010, no. 240 as amended (Research assistant contracts) including renewals and contracts between different universities/bodies, as well as the duration of the contract of the present call (the period of a Research assistant contract during a PhD study place with grant does not count within the regular study period);
  - p) not to be a relative or relative by marriage up to the fourth degree, with a professor of the Department awarding the research assistant contract, with the Rector, the Director or with a member of the University Council of the University;
  - q) not having been dispensed or dismissed from the employment by a Public Administration for persistent insufficient performance, not having been declared lost from other public employment according to art. 127, paragraph 1, letter d) of the T.U. regarding provisions concerning the charter of civil servants, approved with D.P.R. 10th January 1957, no. 3, not having gained the employment through production of faked documents or vitiated by not amendable invalidity, and not having had an employment relationship by a Public Administration which has been terminated for disciplinary reasons, included those provided in art. 21 of the legislative decree 29/1993;
  - r) the position concerning the fulfillment of the military duties;
  - s) the address chosen for the receipt of communications relating to the selection procedure she/he has applied for (address with postcode, telephone number, possible e-mail-address or fax number) and the commitment to inform the University in case of possible subsequent variations of those data;
  - t) to have received the data protection instructions as per art. 13 GDPR (2016/679) and to know that the supplied data, as well special categories of data (sensitive and judicial data) will be used exclusively for this selection procedure and the possible conclusion of the contract as per GDPR.
- 5) Candidates with recognized disabilities must expressly specify in their application any aid needed in relation to their handicap and the possible necessity of further time for the performance of the exams, according to art. 20 of the law 5th February 1992, no. 104.
- 6) Any variation of the candidate's data according to paragraph 4 of the present article must be immediately communicated in writing to this Administration.
- 7) The University accepts no responsibility for cases in which candidates are untraceable or when the communications are undeliverable due to imprecise indication of the address, or belated or lack of notification on the part of the candidate regarding a change of the address declared in the application. The University also disclaims liability for mail going astray, whether third parties are to blame, or whether it is attributable to mishaps, or to *force majeure* and which, in any case, is in no wise ascribable to the University. It accepts no blame when the return delivery slip indicating receipt of the application, of documents or of communications relating to the selection procedures fails to arrive. If the candidate's address differs from that of her/his place of residence, again the University is exempt from responsibility should a registered letter with notification of receipt arriving at the place which the candidate had specified as his address during the period of selection, fail to reach her/him.

## **Art. 6**

### *Presentation of qualifications*

- 1) Considered that, in accordance to the present call, by 'qualifications' are intended those scientific, didactic and artistic ones and the publications, and for 'certificates' any document proving the possession of a certain qualification, the candidate must enclose at the application for participation in the selection procedure in unstamped paper:
- a) 1 copy of a valid identity document and the fiscal code;
  - b) 1 photocopy of the curriculum vitae regarding the didactic and scientific activity and drawn up according to the model of attachment 'C';
  - c) didactic and scientific qualifications believed useful for the comparative assessment;
  - d) 1 photocopy of the numbered list of the publications believed useful for the comparative assessment and drawn up in accordance with article 7 paragraph 3 of this call;
  - e) 1 photocopy of the list of all documents enclosed at the application [generic list of those materially inserted in the envelope, or the documents required by letters a), b), c) and d) of the present paragraph].

2) The qualifications indicated in paragraph 1, letter c), of the present article, if issued by Italian Public Administration, must be produced in one of the following forms:

- a) in copy corresponding to the original as certified by substitutive declaration of the deed of notoriety according to art. 47 of the D.P.R. 28th December 2000, no. 445. In that case the candidate must produce:
  - 1 copy of each qualification;
  - 1 declaration drawn up according to the model of attachment 'B', signed and dated at the last page, where the candidate, under own responsibility, declares that the copies of the enclosed qualifications, exactly described, and in particular with regard to the date of attainment, place and Administration issuing the qualification, correspond to the original. That declaration at the same time serves as list of the qualifications, in which case the latter ones do not have to be produced;
  - 1 copy of an identity document;
- b) in form of a self-declaration according to the model of attachment 'B' (substitutive declaration of certification according to art. 46 of the D.P.R. 28th December 2000, no. 445), where the candidate, under own responsibility, declares to possess the qualifications, exactly described, in particular with regard to the date of issue, place and Administration issuing the qualification. In that case the candidate must produce:
  - 1 copy of the attachment 'B', signed and dated at the last page, which at the same time serves as list of the qualifications, in which case the latter ones must not be produced;
  - 1 copy of an identity document.

**The University cannot request nor accept certificates issued by other Italian public offices.**

**If the above-mentioned certificates should be enclosed at the application for participation in the selection procedure, they will not be considered by the Commission of selection.**

The qualifications issued by private corporation or abroad can be produced in one of the following forms:

- a) in original;
- b) in certified copy;
- c) in copy corresponding to the original as certified by substitutive declaration of the deed of notoriety or in form of a self-declaration according to the above-mentioned model of attachment 'B'.

The above mentioned declarations drawn up according to the model of attachment 'B' may be used by Italian citizens and also by citizens of the EU.

The declarations according to the above-mentioned articles of the D.P.R. 28th December 2000, no. 445, may be used by non-EU citizens, if it is necessary to proof conditions, facts and personal qualities certifiable or attestable by public or private Italian bodies or bodies of the EU, without prejudice of special provisions in laws and regulations concerning immigration matters and the condition of foreigners. If the declarations according to the above-mentioned articles of the D.P.R. 28th December 2000, no. 445 are used in other cases than the above mentioned, the winner of the procedure has to submit, before the employment, the certificates as per paragraph 7.

- 3) The curricula and the lists mentioned in letters d) and e) of paragraph 1 of the present article must be signed and dated in the last page.
- 4) No qualification sent to this Administration will be returned.
- 5) The sending of the publications does not enable to correct the missed or late submission or mailing of the application for participation in the selection.
- 6) Without prejudice to the exceptions expressly provided by law, the above-mentioned attachment 'B' may further be used by the candidate to declare standings, facts and personal qualities of her/his direct knowledge, not expressly indicated in art. 46 of the D.P.R. 28th December 2000, no. 445.
- 7) With regard to non-EU citizens, the certificates issued by the competent Authorities of the country the person belongs to, must be in accordance with the provisions in force in those countries and must also

be legalized by the competent Italian consular authorities.

- 8) With regard to conditions, facts and personal qualities self-certificated by the candidates for the present selection procedures the University has the possibility to exercise appropriate checks, also random ones, regarding their truthfulness.

In case of mendacious declaration the candidate, further than being excluded from the selection procedure, will be denounced according to the Criminal Code and the special laws regarding the matter, according to the provisions cited in art. 76 of the D.P.R. 28th December 2000, no. 445.

- 9) The qualifications may be produced in their original language if it is one of the following: Italian, French, English, German and Spanish.

It is in the authority of the Commission of selection to request the candidates integrations of the qualifications submitted in French, English, German or Spanish language, by forwarding the correspondent translation in Italian.

The translation in Italian language must be accompanied by a substitutive declaration of the deed of notoriety where the candidate, according to art. 47 of the D.P.R. 28th December 2000, no. 445, certifies the conformity of the translated text with the original (see attachment 'B').

- 10) Any certificate or diploma drawn up in a language different than Italian, French, English, German and Spanish, submitted by Italian, EU or non-EU citizens, must be enclosed, according to paragraph 3 of Art. 33 of the D.P.R. 28th December 2000, no. 445, the correspondent Italian translation, which is certified conform to the original text by the competent diplomatic or consolar representation or by a official translator. The certificates or diplomas drawn up in a different language than those above mentioned, in case of lacking translation, will not be assessed by the Commission of selection.

## **Art. 7**

### *Sending of the publications*

- 1) The publications must be submitted together with the application.
- 2) Publications will only be evaluated when they can be traced in public catalogues as publications.  
If the applicant forward more publications as foreseen in the art. 1, the Commission of selection assess only the maximum number in the order indicated by the applicant.
- 3) Together with the publications, there must be enclosed a correspondent numbered list, signed and dated at the last page. The Publications must be mentioned in chronological order within each category following the International Standard for bibliographic references with DOI whenever possible. With multiple authorship, if one is the main author, that author's name appears in *Italics*. In addition, in the left-hand margin please star (\*) what you consider were especially significant publications. Where relevant, citation index and impact of journal.
- 4) Publications handed in or sent after the final term as indicated in paragraph 1 of the present article cannot be considered by the Commission of selection.
- 5) For the present selection procedure are considered assessable the print extracts and the works which, at the moment of the deadline of the call, have been subject to legal deposit according to the provisions of the law 15th April 2004, no. 106, put into effect with D.P.R. 3rd May 2006, no. 252.
- 6) The publications, with 1 copy of the correspondent list attached, may be sent:
  - a) in original;
  - b) in certified copy;
  - c) in photocopy or digital copy. In that case a substitutive declaration of the deed of notoriety (to be drawn up according to the model of attachment 'B' and signed at the last page, with the production of a photocopy of an ID) must be attached, where the candidate, according to art. 47 of the D.P.R. 28th December 2000, no. 445, certifies the conformity of those produced with the original and indicates the author, the title of the work, the place and date of publication and the number of the work.
- 7) In case the candidate produces copies or digital copies of the publications they must be declared

conform to the originals:

- a) for works printed in Italy it is also necessary to attest the date of deposit of the printing according to the law 15th April 2004, no. 106, put into effect with D.P.R. 3rd May 2006, no. 252;
- b) for works printed abroad the date and place of publication must be indicated.

- 8) The publications may be produced in their original language if it is one of the following: Italian, French, English, German and Spanish.

It is in the authority of the Commission of selection to request the candidates integrations of the publications submitted in French, English, German or Spanish language, by forwarding the correspondent translation in Italian.

The translated texts must be produced in typewritten copies with the text printed in the original language and must be accompanied by a substitutive declaration of the deed of notoriety where the candidate, according to art. 47 of the D.P.R. 28th December 2000, no. 445, certifies the conformity of the translated text with the original (see attachment 'B').

- 9) The publications whose original language is different than Italian, French, English, German and Spanish must be translated in one of the above-mentioned languages.

It is in the authority of the Commission of selection to request the candidates integrations of the translations submitted in another language than Italian, by forwarding of a translation in Italian of the text already translated.

The translated texts must be produced in typewritten copies with the text printed in the original language and must be accompanied by a substitutive declaration of the deed of notoriety where the candidate, according to art. 47 of the D.P.R. 28th December 2000, no. 445, certifies the conformity of the translated text with the original (see attachment 'B').

- 10) For selection procedures concerning linguistic matters publications may be produced in the language or languages the selection procedure relates, even if different of those indicated in paragraph 9 of the present article.

- 11) The publication must be produced in any case, even in case they have already been submitted by this or other Administrations for participation at other selection procedures.

- 12) The missed sending of the publications within the provided date is not considered as renunciation of participating in the selection procedure. Nevertheless, the Commission of selection assesses the candidate only on the basis of the curricula and can therefore not assess the scientific works even if they are personally known by its members.

The Commission of selection does not take into consideration publications not conforming to the required format or in different edition as those indicated in the application for participation in the selection procedure.

- 13) No scientific work sent to this Administration will be returned. Nevertheless, the candidates may require its possess, except in case of pending controversy and according to the provision of the subsequent article 22, by going, personally or on behalf of a delegate, to the Personnel Office Academic Staff within the term of six months starting from the date of the Rectoral decree of confirmation of the regularity of the records. After this term has passed it is in the power of the University to dispose freely of the material not withdrawn.

## **Art. 8**

### *Exclusion from participation at the selection procedure*

- 1) The candidates are admitted conditionally at the selection procedures. Therefore exclusion through failing to meet the prescribed requirements is provided for with due decree of the Rector of the University at whatever stage of the procedure.
- 2) In particular, are excluded those:
  - a) presenting an application which is not signed;
  - b) presenting applications which, for any reasons, are not sent by post or consigned by the final deadline indicated in art. 5, paragraph 1 of the present call.



## **Art. 9**

### *Renunciation of participation*

- 1) The renunciation of participation at the selection procedure (to be drawn up according to the model of attachment 'C') must be sent to the President of the Commission of selection and, for information, to the person in charge of the procedure (e-mail: [personnel\\_academic@unibz.it](mailto:personnel_academic@unibz.it)).  
Renunciations preceding the formation of the Commission of selection must be subsequently sent to the person in charge of the procedure (e-mail: [personnel\\_academic@unibz.it](mailto:personnel_academic@unibz.it)).
- 2) Renunciation takes effect from the Commission's first meeting following the date of its receipt.
- 3) The absence of the candidate at the interview is considered implied renunciation to the selection procedure.

## **Art. 10**

### *Commission of Selection*

- 1) The commission of selection is composed of three members, who are professors or researchers at Universities in Italy and/or abroad. One member must be a full or associate professor and only one member can be a fixed-time researcher.

The members of the Commission of selection must be active in the relevant research area or in the disciplinary area the research project or the research activity refers.

- 2) The members of the Commissions of selection are appointed by the Department requesting the selection procedure.
- 3) The Commission of selection is appointed by special provision to be published also on the University's web page.
- 4) The Commission of selection remains in charge for six months and may be renewed only once and for not more than four months.

In case the work has not been completed within the extended period, the Rector, with due provision, will start procedure for the replacement of the Commission or the members responsible for the delay, establishing at the same time a new term for the conclusion of the work.

- 5) In case of selection procedures based on only qualifications the Commission of selection, for carrying out its meetings, may make use of telematics tools for collective work, on condition that all documentation submitted for the selection procedure is available in digital form.

## **Art. 11**

### *Selection of the candidates*

- 1) The comparative assessment is based on qualifications and, if provided by the call, examination/s.  
The commission of selection evaluates up to a maximum of 10 publications.
- 2) The interview may be performed also by videoconference, if the commission of selection approves it and the public session is guaranteed.
- 3) In case one or more examinations are provided, the dates will be notified to the candidates not less than 10 days before taking place, with indication of the time and place they are being held.

To sit the examination/s, the candidate must be equipped, with the exclusion of others, of one of the following currently valid documents of recognition provided in art. 35, paragraph 2 of the D.P.R. 28th December 2000, no. 445: identity card, passport, driving licence, railway record-book, postal card, firearms licence. The mentioned documents must contain a recent photograph of the candidate and her/his signature be authenticated by a mayor or a public notary.

- 4) At the end of its work, the Commission of selection, on the basis of the scores assigned for the qualifications, publications and the examinations, if provided, compiles the merit ranking of the suitable

candidates. Minority positions should be recorded, indicating, in relation to the number of research assistant contracts to confer, the candidates which the research contracts are conferred.

#### **Art. 12**

##### *Publicity and transparency of the selection procedure*

- 1) The Commission of selection gives communication of the record containing the final merit ranking to the person in charge of the procedure for the subsequent measures.
- 2) In case procedural errors are discovered, the records are returned with due provision to the Commission of selection for regularization within the term indicated in the provision.
- 3) The results of the assessment will be published also on the University's web page.

#### **Art. 13**

##### *Validity of the ranking according to merits*

- 1) The merit ranking lasts up to 14 months before the conclusion of the research project.
- 2) In case of withdrawal from the contract, the same will be conferred to the next suitable candidate in the concerned ranking list.

#### **Art. 14**

##### *Formalization of the relationship*

- 1) The University stipulates with the first candidate in the merit ranking a contract, regulating the forms and modalities of the collaboration activity and the allotment of the research assistant contract.
- 2) The contract may be renewed within the maximum term of 3 months after its expiry.
- 3) The research assistant contracts are in no way considered a dependent employment relationship and do not confer rights for access to the University staff.
- 4) The winner of the present selection procedure must fulfill the duties provided by the University regulation for the conferral of research assistant contracts.

A copy of the regulation is delivered to the holder of the research assistant contract at the stipulation of the contract.

- 5) The research activity the winner has to complete must have the following features:
  - a) temporally defined;
  - b) connected with the fulfillment of a research program or a stage of it;
  - c) autonomous performance, under the direction of the supervisor, of the program, without predetermination of working hours.

#### **Art. 15**

##### *Rights and duties of the assistant researchers*

- 1) The holder of the research assistant contract undertakes research activities provided by the research programs adopted by the related Department. He/she may collaborate with students in research activities relating to his/her degree thesis, participate at examination commissions and perform formal and informal didactic exercises.
- 2) The holder of the research assistant contracts may participate at groups and at research projects of the University/the Departments. The performance of those research activities does not confer a right of payment of a separate compensation.
- 3) The holder of the research assistant contract upon authorisation of the supervisor is allowed to do didactic activities (lessons, exercises, laboratories, supplementary didactic activities) for a maximum of 60 hours per academic year at the Free University of Bozen-Bolzano and/or at other Universities/Institutions, provided that this activity does not interfere with the research activities.

The didactic activities at the University is decided by the Faculty upon consent of the holder of the research assistant contract and assigned directly. The didactic activity is remunerated by the University according to "*vigenti tariffari in materia di docenza a contratto e delle vigenti disposizioni in materia di collaboratori didattici*".

- 4) The research assistant contract holder, in order to carry out the research activity, may use the facilities of the Department he/she belongs and make use of the services available to the researchers according to the regulations in force.
- 5) The research activity is performed at the Faculty or elsewhere, if authorized by the supervisor.

The in advance authorized expenses for missions are refunded according to "*vigente regolamento in materia di viaggi di servizio*."

#### **Art. 16**

##### *Supervisor and entrustees tasks*

- 1) The Department the research assistant contract holder belongs nominates a professor or researcher or a fixed-time researcher (if the contract is longer than the contract of the research assistant) as supervisor for the research activities, guiding and directing the research activities undertaken by the research assistant contract holder.
- 2) The supervisor must collect and assess the concise and the final relation as per art. 17, paragraph 1. He/she further must report to the Responsible of the Department and to the Personnel Academic Staff the defaults of the contract holder, also in relation to possible suspensions of payments, except in case of grave default constituting cause of resolution by law of the contract.
- 3) In order to elaborate the contract the supervisor has to inform the Personnel Academic Staff about the commencement of the contract and has to send a detailed description ( in accordance to the call) of the research activity with indication of possible subgoals which have to be achieved at determined deadlines during the project.

#### **Art. 17**

##### *Control modalities, assessment of the activity performed by the research assistant contract holders and causes of resolution of the contract*

- 1) In addition to the achievement of the possible subgoals as per art. 9 paragraph 3 the holder of the research assistant contract must annually present a short paper about the research activity performed and the results attained, which, with the assessment of the supervisor attached, is sent to the presidency of the Department concerned.
- 2) The research assistant contract holder must also produce a detailed final relation explaining the performed activity and the results attained, which, with the assessment of the supervisor, is submitted, within 45 days preceding the end of the contract, to the presidency of the Department concerned.
- 3) The non-presentation of the reports within the provided terms causes the suspension of payment of the following installments.
- 4) In case the research assistant contract holder, after having started the research activity, does not continue it, regularly and continually, for the whole duration of the research assistant contract without justified reason or is responsible for grave and repeated misdemeanor, the procedure for resolution of the contract will be started.
- 5) The contract will be terminated in the cases provided by paragraph 6 with deliberation of the concerned Department.
- 6) The contract will be terminated in the following cases:
  - grave and proven misdemeanor of the research assistant contract holder, reported by the supervisor or by the responsible of the concerned Department;
  - unjustified missed beginning or unjustified delay of the activity;
  - unjustified suspension of the research activity for a period which is prejudicial to the research

- program;  
- grave violation of the incompatibility rules provided by the present Regulation.

#### **Art. 18**

##### *Loss and withdrawal*

- 1) Those not initiating the activity within the indicated terms lose the right for the research assistant contract.
- 2) Only delays due to grave health reasons or to *force majeure* duly proved are justified and admitted.
- 3) The holder of the research assistant contract may withdraw from the contract by observing a 30 (thirty) day notice. In case of written consent by the supervisor, the notice may not be considered.
- 4) Possible postponements of the date of beginning of the period of enjoyment of the research assistant contract may be awarded to winners proving to have to fulfill the military duties and to working mothers (legislative decree. no. 151/2001).

#### **Art. 19**

##### *Attendance of research doctorate courses*

- 1) The holder of the research assistant contract may attend research doctorate courses without scholarships even in supernumerary, without prejudice of getting through the admission tests.
- 2) The University Council, before the beginning of the academic year, after having heard the departments, determines, for each doctorate course, the maximum number of research assistant contract holders admitted to attend doctorate courses in supernumerary.

#### **Art. 20**

##### *Economic and fiscal treatment, social security*

- 1) The amount of the remuneration is determined by the University Council, in respect of the minimum limits determined with Ministerial Decree.
- 2) The remuneration is paid in monthly installments. The monthly gross amount is determined by dividing the annual gross remuneration with the number of months of the contract's duration plus one.
- 3) Mission expenses will be taken from the fund of the person responsible of the research project.
- 4) The research assistant contract for collaboration at research activities under the present call is free of income tax. In relation to fiscal matters the provisions of Art. 4 of the law 13th August 1984, no. 476 with subsequent modifications and integrations are applied.
- 5) The University provides for the insurance covering in relation to risks of accidents at work and civil responsibility, applying the fiscal and social security disciplines provided by Art. 22, paragraph 6, of the law no. 240/2010.

#### **Art. 21**

##### *Return of publications*

- 1) Candidates declared not eligible may withdraw, at their own expense, the publications submitted to this University within six months from the date of the Rector's decree of confirmation of the regularity of records. Once the term has passed the University keeps the material for its own necessities, disclaiming liability towards the candidates.

#### **Art. 22**

##### *Protection of personal data*

- 1) With reference to the provisions of the European Regulation 2016/679, the Free University of Bozen-Bolzano, as data controller of this selection procedure, informs that the data contained in the application documents will be used exclusively for the implementation of this selection procedure and the possible conclusion of the contract (see enclosed data protection instructions). The winner of the selection procedure will be appointed as an external data processing manager at the time of the appointment.

### **Art. 23**

#### *Person in charge of the procedure*

- 1) In accordance with the law 7th August 1990, no. 241, the person in charge of the procedure of the present selection is Dr. Paola Paolini – Head of the Personnel Office Academic Staff – Piazza Università, 1 - C.P. 276 – 39100 Bozen-Bolzano – tel. +39 0471 011310, e-mail: [personnel\\_academic@unibz.it](mailto:personnel_academic@unibz.it).
- 2) On the web page <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/?group=18> expressly dedicated to the selection procedures are available all relating information about the progress report of the Commission of selection's works as well as the relating deadlines.

### **Art. 24**

#### *Referring provisions*

- 1) For anything that is not expressly considered in the present announcement, reference shall be made, where applicable, to the norms cited in the preamble of the present decree and any related laws in force.

Bozen-Bolzano, 19.12.2019

Decree no. 811/2019

THE RECTOR

Prof. Paolo Lugli

