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Object: Selection procedure for a departmental research grant entitled “Virtual reality and metaverse as teaching and technological tools for medical and scientific learning” in the Sector Competition 05/D1 - Physiology - Research Coordinator - Professor Andrea Moriondo

THE DIRECTOR OF THE DEPARTMENT

- Given article no. 22 of the Law no. 240 of 30 December 2010, on research grants;
- Given the Decree of the Ministry for Education, University and Research no. 102 of 9 March 2011, which establishes the minimum gross annual amount for research grants;
- Given the Regulations for the Assignment of Research Grants (hereafter the Regulations) issued by Rectoral Decree no. 903 of 24 July 2013, latest amendments issued by Rectoral Decree no. 2021 of 18 December 2017, effective as of 3 January 2018;
- Ascertained the financial availability approved by the Scientific Council of the Special Teaching and Learning Center (TCL) on 20 October 2022, including the departmental research grant entitled "The university path of students with Specific Learning Disorder: analysis of educational practice and implementation of inclusive methodologies for the realization of human potential and for job placement" – Resp. Sc. Prof. Andrea Moriondo on the background of the TLC Project (Teaching and Learning Center) – budget 2022-2023;
- Recalling the accounting regularity of the expenditure of an amount equal to € 24,425.00 = gross recipient and € 29,998.79 = gross University for one year, on the fund of the TLC Project (Teaching and Learning Center) - budget 2022-2023;
- Given the Council of the Department of Medicine and Surgery Rep. n. 321/2022 of 21 October 2022 approving the activation of a selection procedure for the assignment of a departmental research grant entitled “Virtual reality and metaverse as teaching and technological tools for medical and scientific learning” in the Field in Area 05 - Biological Sciences, Macro-sector 05/D - Physiology, Competition Sector 05/D1 - Physiology, Scientific Disciplinary Sector BIO/09 - Physiology with a duration of one year, under the guidance of the Research Coordinator Prof. Andrea Moriondo;
- Ascertained that the amount of the grant referred to in this announcement is financially covered by the fund of the TLC Project (Teaching and Learning Center) - budget 2022-2023





DECREES

Art. 1 - Object

A selection procedure by qualifications is hereby opened for the assignment of n. 1 departmental research grants with a duration of 1 year for the academic recruitment field in Area 05 - Biological Sciences, Macro-sector 05/D - Physiology, Competition Sector 05/D1 - Physiology, Scientific Disciplinary Sector BIO/09 - Physiology in the Department of Medicine and Surgery.

Research Title: "Virtual reality and metaverse as teaching and technological tools for medical and scientific learning".

Research Project:

"The recent rapid spread of low-cost virtual reality viewers, as well as the availability of cameras with 360° shooting range at relatively low prices, together with the availability of software increasingly projected towards a virtual but immersive experience in educational and work contexts fosters a deep reflection on the possible profitable use of this new technology in the field of medical and scientific teaching. The research project aims to set-up and evaluate the impact at the educational level of lessons delivered both through the virtual presence of the learners in a real clinical or laboratory environment through the use of 360° footage enjoyed through VR viewers, and through the setting up of virtual classrooms in which it is possible to use three-dimensional models of the medical and I or scientific field and innovative techniques for the use of specific multimedia contents, thanks to the use of software already available for VR viewers on the market."

This research will be carried out in the Department of the Department of Medicine and Surgery of the University of Insubria

Research Coordinator: Professor Andrea Moriondo.

Art. 2 – General requirements

- Master's Degree in Biological Sciences (LM-6)
- Master's degree in biotechnology (LM-8 and LM-9)
- Master's Degree in Environmental Sciences (LM-35 and LM-75)
- Master's degree in Motor Sciences (LM-67 and LM-68)
- Single cycle master's degree in Medicine e Surgery (LM-41)
- Single-cycle master's degree in Dentistry e Dental prosthesis (LM-46),

A similar academic qualification obtained abroad and recognized as equivalent to the Italian qualification by the competent academic authorities.

The following constitute **preferential requirements**:

- adequately documented, the use of Oculus-type virtual reality viewers (standalone), of 360° shooting techniques with special cameras and the use of current software available to take advantage of these tools (e.g. Horizon Workrooms, Immersed, BigScreen and/or similar).



Candidates must have no criminal record.

Applicants in possession of degrees earned abroad, who have not obtained the declaration of equivalence, must enclose in the application form a translation into Italian and a declaration of value of the foreign degree by a qualified Italian Diplomatic or Consular Representative in the country of origin, according to the Laws in force on the subject. The degree earned abroad can be declared admissible, by the Judging Commission, only for purposes related to the selection.

Qualifications must be possessed on the date of closure established for the presentation of the application form.

Those who have already received grants according to law n. 240 of 30 December 2010 for more than 6 years, except for the period corresponding to a PhD without scholarship within the maximum limit of the legal duration of the related course, cannot participate in the selection. For the purpose of the duration of the grant, periods spent on maternity or sick leave are not relevant according to the current regulations.

Art. 3 – Incompatibility

Personnel employed in Universities and in other public institutions can participate in the selection procedure, as of article no. 22, paragraph 1 of the Law no. 240 of 30 December 2010, but must resign should they obtain the research grant.

Civil Servants from different institutions from those mentioned in the paragraph above can receive the research grant, but must be placed on unpaid leave for the duration of the research grant.

The research grant is not compatible with enrolment in undergraduate courses, graduate courses, PhD courses with scholarship or medical specialization schools, in Italy or abroad, and with enrolment in other Schools/Courses which require mandatory attendance and prevent carrying out the activities established in the contract.

Relatives and in-laws within and including the fourth degree of a professor who is a member of the Department or the Structure which requested the Research Grant, or of the Rector, Director General or of a member of the University's Board of Directors cannot participate in the selection procedure for the assignment of a research grant.

The research grant cannot be cumulated with other kinds of granted scholarships, with the exception of those awarded by national or foreign institutions to aid, with periods of study abroad, the education of the Research Fellows. The research grant cannot be cumulated with subordinate work, with contracts of collaboration or with income deriving from freelance activities conducted in a continuous way.

Art. 4 – Application and deadlines

The application for participation in the selection, as well as qualifications held, the documents and publications voted helpful for the competition **must be submitted, under penalty of exclusion, via computer**, using the computer application dedicated to page: <https://pica.cineca.it/uninsubria/dmc2022-adr004>

The computer application will necessarily require the possession of an e-mail address in order to perform the self-registration system. The candidate will have to enter all data



required for the production of the application and attach the documents in PDF format. You can attach a maximum of n. 30 documents for publications and n. 30 documents for other qualifications to evaluate, and maximum 30 Mb.

The application form must be completed in all its parts, as indicated in the electronic procedure, and must include:

- A scientific and professional CV
- A copy of a valid ID card

No other forms of submission of applications or useful documentation for participation in the procedure are allowed.

Within the application deadline, the procedure can be saved in draft mode. The date of electronic submission of the request for participation in the selection is certified by the computer system through an automatic receipt, which will be automatically sent via e-mail.

At the end of the submission period, the system will no longer allow access and submission of electronic forms.

Every application will be assigned an identification number, which, together with the selection procedure code in the application information, must be specified for any subsequent communication.

The process of compiling and sending electronic application must be complete **no later than 12:00 PM December, 12 2022.**

The submission of the application form must be completed and concluded as follows:

- **Sign your document on the ConFirma server**
To digitally sign the document, you must have specific hardware which is compatible with the ConFirma service (for example, smart card or USB device with a digital certificate of subscription issued by an accredited certifying body). After signing, it will be possible to download the signed PDF file
- **Digitally sign the document on your electronic device**
- To digitally sign the document, you must have specific hardware (for example, smart card or USB device with a digital certificate of subscription issued by an accredited certifying body) and a digital signature software with which you may create, starting from the PDF file of the document downloaded from this site, a signed pdf.p7m file. The pdf.p7m file must be uploaded again to the website
- **Sign the application (no digital signature)**
If you can't sign the document digitally as specified in the other sections, you need to download the PDF file of the application, print it, sign it, scan it in a PDF file and upload it again to the website.

ATTENTION: a copy of a valid ID card must be attached as the last page of the scanned PDF, after the application form pages (this step can be skipped if a copy of the document was uploaded as an attachment of the application form).

Applications without the candidate's signature will be declared inadmissible.

Foreign nationals who reside in Italy can take advantage of the self-certification above, when substantiating states, facts and personal qualities certifiable by public or private Italian entities (article no. 3 of the Decree of the President of the Republic no. 445 / 2000).



Foreign nationals who do not reside in Italy cannot use in any way the institution of self-certification (article no. 3 of the Decree of the President of the Republic no. 445/2000). Qualifications, certifications and publications which do not comply to the abovementioned indications will not be taken into account. In the application of the rules on self-certification, the University will verify the accuracy of the substitutive declarations and self-certifications pursuant to the Decree of the President of the Republic no. 445/2000.

Only the documents received by the final deadline indicated in the call will be considered valid. The addition of qualifications earned or presented after the expiration date of the deadline of the call will not be admissible to the selection procedure.

Reference to documents and publications previously submitted for participation in other selection procedures in this or other Administrations is not allowed.

Candidates must provide at their expense to the restitution of qualifications and publications sent to participate in the selection procedure, prior to agreements with the Research and Internationalization Office of the University of Insubria.

Art. 5 - Information on the implementation of legislation on the prevention of corruption

The University, in implementation of the legislation on the subject, adopted its three-year plan for the prevention of corruption and appointed the Head of the Prevention of Corruption.

The three-year plan is published on the institutional website at <http://www4.uninsubria.it/on-line/home/naviga-per-tema/amministrazione-trasparente/articolo4719.html>

Any reports can be sent to: anticorruzione@uninsubria.it

Art. 6 – Selection Procedure

The selection procedure is carried out through a comparative evaluation of the CVs of the candidates who have applied, on the basis of their qualifications and publications.

The evaluation of qualifications and publications will be held on **16 December 2022 at 09:00** remotely through the Teams platform.

The score of the ranking will be published on the University website.

For the evaluation of candidates, the Commission has 70 points of which:

- for scientific and professional qualifications: up to a maximum of 55 points;
- for scientific publications: up to a maximum of 15 points.

In the event of further parity, the youngest candidate in terms of age will be preferred.

For inclusion in the ranking, candidates must have achieved an overall score of not less than **42/70**

TITLES (UP TO 55 POINTS)

- 1) master's degree *with a score of* (maximum 18/70)



2) degree thesis (maximum 12/70)

3) previous knowledge activity, adequately documented, of the use of Oculus-type virtual reality viewers (standalone), of 360° shooting techniques with special video cameras and the use of currently available software to be able to use these tools (e.g. Horizon Workrooms, Immersed, BigScreen and/or similar) (contracts, scholarships, assignments, certificates, etc.) (maximum score 25/70);

PUBLICATIONS UP TO 15 POINTS

4) scientific publications (maximum 15/70)

The final list is approved by the Director of the Department and will be posted on the University's official online Board and on the website as notification to those concerned. The merit ranking will be used in the case of withdrawal or termination of the research grant; in this case, the position will be offered to the next candidate in the ranking list, provided that the period proposed for the contract is not less than one year.

Art. 7 – Exclusion

Candidates are admitted conditionally.

The following imply exclusion from the procedure:

- 1) submission of the application after the expiration date of the call;
- 2) failure to sign the application form;
- 3) lack of participation requirements;
- 4) existence of situations of incompatibility.

Exclusion is provided for with a motivated decision of the Director of the Department and will be communicated to the candidate using the e-mail address provided in the application.

Art. 8 – Withdrawal

Should candidates decide to withdraw from the procedure, they should send the withdrawal form via email to the address indicated above in article no. 4 of this call.

Art. 9 – Collaboration contract

The selection result is communicated to the recipient of the research grant, who will have to sign the private-law contract within a specified period, otherwise they will forfeit. This fixed-term contract does not represent in any way a permanent contract of employment and does not give right to be admitted to permanent positions within the University. The University provides equal opportunities to men and women.

The grant implies carrying out the activities briefly mentioned below at the Department of Medicine and Surgery of the University of Insubria and under the supervision of the Research Coordinator Prof. Andrea Moriondo within the research program: “Virtual



reality and metaverse as teaching and technological tools for medical and scientific learning”.

The conditions are indicated by the contract and governed by the Regulations.

The position has a duration of 1 year and can be renewed for periods of not less than one year, up to a maximum of a total of six years, including those within different institutions and universities, with the exception of the period in which the grant was received together with a PhD, not exceeding the legal duration of the course.

The contracts referred to in Article no. 24 of Law no. 240/2010, also with different universities and research institutions, as described in paragraph no. 1 of article no. 3 of this call, may in no case exceed twelve years, including non-consecutive ones. For the purposes of the abovementioned contract, periods spent on maternity or sick leave, in accordance with the current regulations, are not considered.

Renewal is still subject to a positive evaluation of the activities by the Department's Board, as well as to availability of budgetary funds.

For non-EU citizens, the grant will start when they have obtained the residence permit for scientific research, and from the actual beginning of the research activity.

Art. 10 - Recruitment and HRS4R

The recruitment of fixed-term researchers (or Established Researchers, using the European definition) will conform to the European Charter for Researchers (ECR), the Code of Conduct for the Recruitment of Researchers (CCR) and the Code of Ethics, code of conduct and principles of research integrity of the University of Insubria, which provide the general framework for the guidelines and requisites for the roles, responsibilities and rights of these positions, thus guaranteeing that selections procedures are open, transparent and meritocratic.

The University of Insubria received the European Quality Award “HRS4R - Human Resources Strategy for Researchers” in February 2019: such certification recognizes organizations their efforts to implement the Charter and Code in their policies and practice, and identifies the universities and institutions which create and promote a stimulating and encouraging research environment.

Art. 11 – Remuneration

The annual amount of the research grant is of € 24.425,00= inclusive of taxes and which must be paid by the recipient.

The University will provide medical insurance and third-party civil liability.

The amount is tax free according to article no. 4 of the Law no. 476 of 13/08/1984 and is subject, on social security matters, to the regulations according to article no. 2, paragraph 26 and following amendments and additions, of the Law no. 335 of 8/08/1995. The grant will be paid in monthly instalments.

Art. 12 - Suspension of the contract for maternity and sick leave



The research activity is suspended for maternity leave.

To such a case there apply the provisions of the Decree of the Ministry of Labor and Social Policies of 12/07/2007, published in the Official Journal no. 247 of 23/10/07. Sick leave is regulated by article no. 1, paragraph 788 of the Law no. 296 of 27/12/2006 and following amendments and additions.

During the period of mandatory maternity leave, the amount paid by the National Institute for Social Security (INPS), according to article no. 5 of the abovementioned Decree of 12/07/2007, will be integrated by the University to match the total amount of the research grant.

The period of mandatory maternity leave must be made up for after the natural expiration of the contract, as provided by the law, upon decision of the Director of the Department.

Art. 13 – Termination by the recipient of the research grant

The recipient has the right to terminate the relationship, by notifying the Director of the Department with a notice of at least thirty days.

Failure to notify will entail withholding remuneration for a sum related to the period of failed notice.

Art. 14 – Termination of the contract

Should the Research Fellow not continue the activities provided for in the research program without justification or in case of serious and repeated shortcomings, the contract may be terminated upon reasoned request of the research Coordinator, authorized by a resolution of the Department's Board.

The contract is automatically terminated, without prior notice, in the following cases:

- undue failure to commence or undue delay of the activity;
- undue suspension of the activity for a period exceeding 15 days;
- serious infringement of incompatibility, according to article no. 7 of the Regulations.
- negative assessment of the research activity on the part of the Department's Board.

The termination provisions are ordered by the Director of the Department.

Art. 15 – PhD and Master's Degrees

The recipient of the research grant can attend, also in excess and without scholarship, PhD courses, provided that they pass admission tests.

The participation of the recipients of research grants in Master's degrees is incompatible.

Art. 16 – Administrative proceedings

According to Law n. 241 dated 7/08/1990 Dr Roberto Battisti - Administration Office, Department of Medicine and Surgery, the University of Insubria Via Guicciardini 9, 21100



Varese, Italy e-mail: segreteria.dmc@uninsubria.it. in charge of the administrative proceedings

Art. 17 – Processing of personal data

In applying the Legislative Decree no. 196/2003, the University undertakes to respect the confidential nature of the information provided by the candidate. All data provided will be handled only for purposes connected to the selection procedure and to the management of the collaboration relationship, with respect to the current regulations as provided for in the attached document.

Art. 18 - Final regulations and publication

For matters not provided for in this call, please refer to the applicable laws and regulations on the subject.

This call will be published on the University's official online Board and on the "Calls" page of the University, of the Ministry of Education, University and Research and of the European Union websites.

Varese, *November, 23th 2022*

THE DIRECTOR OF THE DEPARTMENT

Prof.ssa Luigina Guasti

Digitally signed

DATE OF PUBLICATION ON THE OFFICIAL ONLINE BOARD **on November, 25th 2022**

EXPIRATION DATE OF THE TERMS **on December, 12th 2022**

Responsabile del Procedimento Amministrativo (L. 241/1990): Dr. Roberto Battisti
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