SELECTION FOR THE AWARDING OF A RESEARCH CONTRACT

THE RECTOR

Given Law 30/12/2010 no. 240, and in particular Art. 22, as amended by Legislative Decree no. 36/2022, converted with Law 79/2022;

Given the "Regulations for the Awarding of Research Contracts pursuant to art. 22 of Law 12/30/2010, n. 240", issued by Rectoral Decree no. 3352-2025, Prot. no. 159462 of 31/03/2025;

Given the request of the Director of the Department of Management, Prot. no. 541444 of 10/12/2025;

And **having evaluated** every appropriate element;

D E C R E E S

ART. 1 – SELECTION FOR AWARDING 1 (ONE) RESEARCH CONTRACT

This document announces the selection process **CdR14/25** for the formulation of a ranking for the awarding of n. 1 research contract in the scientific-disciplinary group GSD 13/ECON-07 MANAGEMENT, scientific-disciplinary sector SSD ECON-07/A - Management, to perform the research on the topic **"SmartSpindle5.0: Monitoring and Performance Optimization for Energy Efficiency and Environmental Impact Reduction in Material Processing for the Industry of the Future", financed by CARIVERONA foundation in the scope of Bando Ricerca e Sviluppo 2024/2025, Rif. 2025.0053 – ID 54833, CUP B33C25002220007.**

The research program concerns (description of the research program within which the research contract holder will work): *the research program involves the study of machine learning techniques for analyzing data collected from hardware sensors installed on electrospindles and the development of models for calculating the spindle's remaining useful life. The contractor will explore topics related to development environments such as Python and PyTorch, as well as existing libraries for predictive maintenance. The research will also extend to digital vision systems that may be used to broaden innovative research areas.*

The purpose of the assignment that will be entrusted to the research contract holder will be (description of the activities that the research contract holder will have to carry out during the duration of the contract):
the research contract holder will be responsible for managing the technical and scientific relations with the industrial partner, gathering requirements and operational constraints. In collaboration with the company, he/she will design, develop, and test advanced models and prototypes of predictive maintenance systems based on machine learning techniques and statistical analysis, defining data acquisition, cleaning and integration pipelines for information coming from sensors and company information systems. The researcher will be in charge of training, optimization and experimental validation of the models on real use cases, documenting results, performance metrics and guidelines for technology transfer. He/she will also prepare technical and scientific reports, contributions for publications and project deliverables, and carry out dissemination activities, including presentations at workshops, seminars and meetings with stakeholders. Active participation in project progress meetings is required.

The research contract will have a duration of twenty-four months, with the possibility of extension and/or renewal accordance with the law.

Admission to the selection process, and the selection procedure itself, are governed by the following Articles.

ART. 2 – REQUIREMENTS

For admission to the selection process referred to in Art. 1, potential candidates must fulfil the following requirements:

a) PhD in Information Engineering, Computer Science or related fields, or to be enrolled in the third year of the doctorate, provided that the qualification is expected to be obtained within six months following the date of publication of this selection announcement;

b) Possession of a scientific-disciplinary curriculum suitable for carrying out the research activity envisaged in this announcement;

c) Knowledge of the following foreign language both spoken and written: English;

d) Other requirements: technical knowledge on sensors for predictive maintenance.

The evaluation of the suitability of the qualification obtained abroad, in the event that the candidate does not possess equivalence, will be carried out by the Selection Committee.

The following are not eligible to participate in the selection process:

- permanent staff employed by universities, public research institutions, and institutions whose advanced scientific qualifications have been recognized as equivalent to a doctoral degree pursuant to Article 74, paragraph 4, of Presidential Decree No. 382 of July 11, 1980;
- those who have held fixed-term research contracts pursuant to Article 24 of Law 240 of 2010, as amended by Legislative Decree No. 36/2022, converted into Law No. 79/2022;
- those who have a kinship or affinity relationship up to and including the fourth degree with a professor affiliated with the Department of Management who proposed the research contract position, or with the Rector, the Director General, or a member of the University Board of Directors.

In order to be admitted to the selection process, potential candidates must meet the stated requirements at the time of the application deadline, provided for in art. 3 of this notice.

Exclusion from the selection process due to a lack of the necessary requirements is determined by a reasoned decree from the Rector, which will be notified to the interested party.

ART. 3 – APPLICATIONS AND RULES FOR SUBMISSION

Applications should be printed on plain paper following the outline attached to this call for applications (appendix: Form A) and addressed to *Magnifica Rettrice dell'Università degli Studi di Verona – U.O. Dottorati e Contratti di Ricerca*.

Applications may be submitted in the following way:
- sending the documentation in pdf format, to the e-mail address *ufficio.protocollo@pec.univr.it*, within the peremptory deadline indicated above. The submission may also be made by an unaudited electronic mail address.

No other forms of application submission are admitted.

All applications must be received by the strict deadline of 1 pm, 20 days after the call for applications is concurrently published in the Official University Register on the web page: http://www.univr.it/it/albo-ufficiale.

If the deadline falls on a public holiday, it will be postponed to the next working day.

Pursuant to Art. 76, Presidential Decree 445/2000 and aware of the criminal penalties for false statements, candidates must state in their application:

1) their name and surname;

2) their date and place of birth;

3) their permanent address, including street name, street number, city, province, postcode, telephone number, Italian tax identification number (if candidate has got it) and email address;

4) the number of the selection process in which they wish to participate;

5) their nationality;

6) that they have no prior criminal convictions, or otherwise report any criminal convictions (even if they have been granted amnesty, cancellation, pardon or legal pardon) or criminal proceedings against them;

7) that they have the required qualification as given in Art. 2 of this call for applications, and state the qualification, the date of achievement, the University where it was obtained and any grade obtained, for which the form attached B can be used.
Foreign nationals must also specify if their qualification, if it was awarded abroad, has received official recognition for equivalency to an Italian qualification and they must provide a copy of the title and its translation into Italian or English;

8) that they fulfil the other requirements specified in Art. 2 of this call for applications;

9) the domicile elected for the purposes of this selection;

10) that all the documentation attached to the application is compliant with the originals.

Administration does not assume any responsibility if the applicant is unable to be contacted or for the loss of documents due to errors in the address provided by the applicant, or for a failure to/delay in notifying a change of the address stated in the application, nor for any postal delivery errors or otherwise which are attributable to third parties, unforeseeable circumstances or force majeure.

In any case, any applications which are not signed or that, for any reason, including force majeure, are received by the University of Verona after the above mentioned deadline, will not be considered.

For the evaluation of qualifications and experience, candidates must attach to their application:

1) the candidate's scientific-professional curriculum vitae signed;

2) publications, up to a maximum of 5;

3) the project proposal, with reference to the research program object of the selection, to be drawn up according to the following instructions:

Length	Max 7.000 characters including spaces
Document language:	English
Document structure:	Title Abstract Methodology Experimental Validation

4) copy of a valid identity document;

5) a list of the documents and publications attached to their application.

Administration reserves the right to perform checks to verify the truthfulness of substitutive declarations. If such investigations reveal that any declarations are false, the applicant will be excluded from any benefits they may have been awarded from provisions made on the basis of the false declaration, notwithstanding the previsions of Art. 76, Presidential Decree no. 445/2000.

Pursuant to Law no. 104 of 05/02/92, candidates with a disability must make a specific request in their application regarding any aid required, as well as any additional time that may necessary to complete the test.

The signature at the bottom of the application is not subject to authentication, in accordance with Presidential Decree no. 445/2000.

ART. 4 – EXCLUSION FROM THE SELECTION PROCESS

Candidates are admitted to the selection process under the condition that the Rector may with due reason exclude those who do not fulfil the selection requirements from the selection process at any time.

ART. 5 – SELECTION COMMITTEE

The Selection Committee, composed of three members and any substitutes (chosen from among professors and researchers and from subject matter experts) in accordance with the provisions of Article 6, paragraphs 1, 6, 7, and 8 of the Regulations referred to in the introduction, will be appointed after the deadline for applications. Its composition will be promptly announced via Rectoral Decree and will be made public through electronic publication on the website, available at the following link: http://www.univr.it/it/albo-ufficiale.

ART. 6 – SELECTION PROCEDURE

The selection will be based on the evaluation of qualifications through the documentation attached to the application and an interview, for which the Selection Committee has a maximum total of 100 points available for each candidate, distributed as follows:

Evaluation criteria	Max. points
a) **Project proposal:** quality, originality and innovation of the project proposal, with reference to the research programme being selected	20
b) **Scientific-professional curriculum:** relevancy and relevance of previously carried out research activities, as well as any work experience, in relation to the contents of the research programme being selected and any additional qualifications	30
c) **Publications:** relevance of the attached publications to the research program being selected	20
d) **Interview:** aimed at ascertaining the suitability for carrying out the research activity covered by the contract and for the implementation of the project proposal presented, as well as assessing knowledge of the foreign language(s) [and Italian]	30
Total score	100

Candidates who achieve at least 70 points out of 100 will be considered eligible.

Candidates' qualifications and experience and project proposals will be evaluated before the interview, based on the documents submitted.

The scores for the evaluation of criteria a), b) and c) will be made known to the candidates before the interviews.

To take part in the interview, candidates must provide a current, valid ID document.

Candidates who do not show an ID document or have only an expired ID document will not be admitted to the interview.

The interviews will take place at 10.30 am (Italian time) on 3rd February 2026 and they will be conducted remotely, using the ZOOM platform.

Candidates must ensure that the workstation from which they will hold the interview is equipped with a webcam, indispensable for recognition, and equipped with a microphone and headphones or audio speakers. The possibility for each candidate to attend the interview of the other candidates must be guaranteed.

Failure / incorrect communication of personal contact details, failure to connect and / or unavailability of the candidate on the day and time established, or failure to show the identification document will be considered a waiver of participation in the interview, and therefore of selection, whatever the cause.

ART. 7 – RANKING LIST

The steps of the selection procedure, including the ranking list, shall be approved by Rectoral Decree. The ranking list will be concurrently published electronically in the Official University Register on the web page: http://www.univr.it/it/albo-ufficiale, in compliance with the principles of transparency and protection of personal data.

In the event of a tie, preference will be given to the candidate belonging to the less represented gender among the candidates participating in the selection process and, secondarily, to the younger candidate.

The merit ranking is valid for 180 days from the date of approval of the ranking list.

ART. 8 – CONTRACT SIGNATURE

The Research Area – Doctoral and Research Contracts Unit will invite the successful candidate to come forward to sign the research contract within 15 days of the date of sending the relevant email notification.

If the winning candidate is unable to attend the Research Contracts Office by the above-mentioned date, he/she may request a justified postponement of no more than 30 days, provided that it is compatible with the project activity.

Failure by the interested party to sign within the deadline is considered a renunciation of employment.

Doctoral students or specializing students may only enter into a contract after obtaining a doctoral degree or a medical specialization. Doctoral students or specializing students who do not obtain the degree within six months of the publication of the call for applications will forfeit their right to a research contract.

ART. 9 – NATURE OF THE CONTRACT

The research contract position is a fixed-term employment contract

The total annual amount of the research contract, net of administrative burden, is € 28.456,48, to be paid to the recipient in monthly instalments. The salary is not subject to indexation or revaluation and it is subject to current tax and social security regulations.

The employment relationship established between the University of Verona and the research contract holder is governed by the applicable provisions, including tax, welfare, social security, and insurance coverage for employment income.

The University provides insurance coverage against accidents at work and occupational diseases and for third-party liability.

Research contracts do not confer any right of access to University positions.

Research contracts are incompatible with:

   a) any other employment relationship, including part-time or fixed-term, at public or private entities;
   b) holding research grants, including at other universities or public research institutions;
   c) scholarships or grants of any kind awarded by national or foreign institutions, except those exclusively aimed at international mobility for research purposes, including PhD scholarships and emoluments related to medical specialization contracts.

The research contract is not compatible with attending bachelor's degrees, master's degrees, PhD, or medical specialization programs, in Italy or abroad. The research contract entails unpaid leave of absence for employees working in public administrations.

Without prejudice to the above, the research contract holder may not, in any case, carry out activities that could create a conflict of interest with the University's activities or that prevent the proper conduct of the research activity.

ART. 10 **– SAFEGUARD PROVISIONS**

For any matters not provided for by this announcement, please refer to the University's Regulations for the research contracts, Article 22 of Law No. 240/2010, and applicable laws, where applicable.

The University of Verona is the owner of the processing of the personal data of the participants in the selections, pursuant to EU Regulation 2016/679; detailed information on the purposes of the processing, recipients of the data and exercise of the data subject's rights is available on the University's institutional website: http://www.univr.it/it/privacy.

This call for applications shall be publically published in the electronic Official University Register on the web page: http://www.univr.it/it/albo-ufficiale.

For more information, contact the Research Office – PhD and Research Contracts Unit of the University of Verona, Via San Francesco 22, ph. +39(0)458028204, e-mail address elena.cordioli@univr.it.

                                                        THE RECTOR
                                                    Prof. Chiara Leardini

This document is digitally signed and recorded in the report system of the University of Verona, under Legislative Decree 82/2005 and subsequent amendments.

ALLA MAGNIFICA RETTRICE
DELL'UNIVERSITÀ DEGLI STUDI DI VERONA
U.O. Dottorati e Contratti di Ricerca

I, the undersigned, ...…………………………………………………………………………………………….

born in ……………………………………..……… (province ....) on ....

residing in …………………………………………………………………………….. (province ....)

street ……………………………………………………………… n° .... postcode …………..

phone ....…….………………….. Italian tax identification no. ………………………………………,

request admission to the selection process **CdR14/25** for the formulation of a ranking for the awarding of n. 1 research contract in the scientific-disciplinary group GSD 13/ECON-07 MANAGEMENT, scientific-disciplinary sector SSD ECON-07/A - Management, to perform the research on the topic "**SmartSpindle5.0: Monitoring and Performance Optimization for Energy Efficiency and Environmental Impact Reduction in Material Processing for the Industry of the Future**", financed by CARIVERONA foundation in the scope of Bando Ricerca e Sviluppo 2024/2025, Rif. 2025.0053 – ID 54833, CUP B33C25002220007, pursuant to Art. 22, Law 240/10.

I hereby state, under my own personal responsibility:

a) I have citizenship in the following country: ....;

b) I have no reported criminal convictions nor pending criminal proceedings; or: I have the following criminal
    convictions or the following pending criminal proceedings ……………………………………………………
    ………;

c) I have:

☐   a PhD in ………………………………………………………………………………………..…
    awarded on the date ……………………. by ………………………………………………..……;
    - for qualifications obtained in Italy, please attach the completed Form B;
    - for qualifications obtained in another country, please attach a copy of the qualification and its
      translation into Italian or English.

d) I meet the other requirements specified in Art. 2 of this call for applications.

I attach my qualifications as specified in Art. 3 of this call for applications, printed on plain paper.

Address for correspondence:

Street ....……….......................……………… City ....

Prov. .... Postcode .... Phone ....………… Email …………………………..........

The undersigned declares that all attached documentation is compliant with the originals.

I, the undersigned, state my knowledge that the University may use the information contained in this declaration exclusively within the context and for the institutional purposes of the Public Administration, in compliance with the current legislation on the processing of personal data.

Verona, ...………   Signature ....……..

SUBSTITUTIVE DECLARATION OF CERTIFICATION and/or SUBSTITUTIVE DECLARATION IN LIEU OF AFFIDAVIT
(Art.s 46 and 47, Presidential Decree no. 445 of 28/12/00)
To be used only for qualifications obtained in Italy

I, the undersigned,

SURNAME _____

NAME _____
(for women: indicate maiden name)

ITALIAN TAX ID NUMBER _____

BORN IN _____ PROVINCE _____ ON _____

PERMANENT ADDRESS: CITY _____ PROVINCE _____

ADDRESS _____ POSTCODE _____

PHONE _____ EMAIL _____

being aware of the criminal sanctions concerning false statements and the creation or use of false documents, as referred to in Art. 76, Presidential Decree 445/2000

I declare:

to have:

☐ a PhD in ……………………………….…………………………………………………………….….

awarded on the date ……………………. by …………………………………………………...……

I, the undersigned, state my knowledge that the University may use the information contained in this declaration exclusively within the context and for the institutional purposes of the Public Administration, in compliance with the current legislation on the processing of personal data.

Place and date _____ Signed _____

Pursuant to Art. 38, Presidential Decree 445/2000, this substitutive declaration of affidavit is signed by the person concerned in the presence of a suitable employee or signed and submitted together with a non-certified photocopy of an ID document of the person concerned.