



Rector's Decree n. 1458/2026 prot. n. 299855 - 24.09.2026

PUBLIC SELECTION FOR THE AWARD, PURSUANT TO ART. 22 OF LAW NO. 240 OF 30.12.2010 AND THE RELATED UNIVERSITY REGULATIONS, OF NO. 1 FIXED-TERM RESEARCH CONTRACT, WITH A DURATION OF 24 MONTHS, ENTITLED "SUBGRID CLOSURES FOR PARALLEL 2D HYDRODYNAMIC SIMULATIONS OF FLOODING IN COMPLEX DOMAINS", (GSD) 08/CEAR-01 HYDRAULICS, HYDROLOGY, HYDRAULIC AND MARITIME CONSTRUCTIONS, (SSD) CEAR-01/B HYDRAULIC AND MARITIME CONSTRUCTIONS AND HYDROLOGY, AT THE DEPARTMENT OF ENGINEERING AND ARCHITECTURE (DIA)

THE RECTOR

HAVING REGARD to the Statute of the University of Parma;

HAVING REGARD to Law no. 168 of 9 May 1989 *"Establishment of the Ministry of Universities and Scientific and Technological Research"* concerning, among other things, the autonomy of universities;

HAVING REGARD to Law no. 241 of 7 August 1990 on *"New rules on administrative procedure and the right of access to administrative documents"*;

HAVING REGARD to Law no. 104 of 5 February 1992, as amended, on the *"Framework law for assistance, social integration and the rights of disabled people"* and, in particular, art. 20;

HAVING REGARD TO Prime Ministerial Decree no. 174 of 7 February 1994, containing rules on the access of citizens of the Member States of the European Union to jobs in public administrations;

HAVING REGARD to Law no. 68 of 12 March 1999, as amended, on *"Regulations for the right to work for the disabled"*;

HAVING REGARD to Presidential Decree no. 445 of 28 December 2000, containing the *"Consolidated Law on administrative documentation"*;

HAVING REGARD to Legislative Decree no. 196 of 30 June 2003 *"Personal Data Protection Code"*, as amended by Legislative Decree no. 101 of 10 August 2018, as well as Regulation (EU) no. 2016/679 *"General Regulation on the Protection of Personal Data"*;

HAVING REGARD to Legislative Decree no. 198 of 11 April 2006, *"Code of equal opportunities between men and women"*;

HAVING REGARD to Law no. 240 of 30 December 2010 on *"Regulations on the organisation of universities, academic staff and recruitment, as well as delegation to the Government to encourage the quality and efficiency of the university system"*;

HAVING REGARD to the Recommendation of the Council of the European Union of 18 December 2023 (C/2023/1640), containing, inter alia, the European Charter for Researchers;

HAVING REGARD to Ministerial Decree no. 639 of 2 May 2024, concerning the determination of scientific-disciplinary groups and related declarations, as well as the rationalisation and updating of scientific-disciplinary sectors and the reduction of the latter to scientific-disciplinary groups, pursuant to art. 15 of Law no. 240 of 30 December 2010;

HAVING REGARD to the CCNL for the Education and Research sector for the three-year period 2019/2021 and, in particular, art. 178, letter g), which refers, due to the complexity of some issues, the implementation of the provisions of art. 22 of Law no. 240/2010 to one or more contractual sequences;

CONSIDERING that, on 18 March 2025, the contract relating to the contractual sequence on the Research Contract pursuant to Article 22 of Law no. 240/2010 was signed;

RECALLED the current *"Regulations for the awarding of research contracts, post-doc appointments and research assignments, pursuant to articles 22, 22 bis and 22 ter of Law no. 240 of 30 December 2010"*, issued with Rector's Decree no. 1851/2025, prot. 314523 of 07.11.2025;

RECALLED, also, the *"Regulation on the discipline of research, consultancy, teaching and higher education activities carried out by the University of Parma against contracts or agreements with third parties"*, issued with Rector's Decree no. 2298/2024, prot. 264866 of 4.10.2024;



RECALLED Resolution no. 8/2026/36 of the Council of the Department of Engineering and Architecture - meeting of 14.07.2026, received with a note taken to the University protocol on 15.07.2026 at no. 234235, with which, as part of the following research project, of which Prof. Francesca Aureli is Scientific Director:

Subgrid closures for parallel 2D hydrodynamic simulations of flooding in complex domains

Pursuant to art. 22 of Law no. 240 of 30.12.2010, the proposal for the activation of no. 1 (one) research contract was approved, having the following main characteristics:

- Duration: 24 (twenty-four) months;
- Scientific Disciplinary Group (GSD): 08/CEAR-01, Hydraulics, Hydrology, Hydraulic and Maritime Constructions
- Academic Disciplinary Sector (SSD): CEAR-01/B, Hydraulic and Maritime Constructions and Hydrology;

TAKING NOTE that the total expense deriving from the activation of the aforementioned research contract, amounting to € 109,820.10, will be borne by the following accounting projects, which, as certified by the Department of Engineering and Architecture, present, for the specific amounts indicated below, the necessary economic availability:

Accounting Project Code	Amount
VACONDIO_R_ECO_RB	80.000,00 €
AURELI_F_ECO_RB	29.820,10 €

WHEREAS it is appropriate to proceed with the announcement of the selection procedure for the awarding of the research contract referred to above;

DECREES

- ART. 1 -

ANNOUNCEMENT OF THE PUBLIC SELECTION

A selection procedure is announced, **through comparative evaluation, for the awarding of 1 (one) research contract, with a duration of 24 (twenty-four) months, pursuant to art. 22 of Law no. 240 of 30.12.2010 and the related University Regulations**, as specified below:

TITOLO PROGRAMMA DI RICERCA / TITLE OF RESEARCH PROGRAM
Chiusure di sottogriglia per simulazioni idrodinamiche 2D parallele di allagamenti in domini complessi <i>Subgrid closure models for parallel 2D hydrodynamic flood simulations in complex domains</i>
DESCRIZIONE DEL PROGRAMMA DI RICERCA / DESCRIPTION OF THE RESEARCH PROGRAM
Il progetto riguarda lo sviluppo e l'implementazione di modelli di chiusura di sottogriglia per codici idrodinamici bidimensionali paralleli finalizzati alla simulazione di allagamenti su domini estesi e geometricamente complessi. L'obiettivo è migliorare la rappresentazione degli effetti idraulici indotti da topografia, batimetria, edificio, infrastrutture e discontinuità morfologiche non risolte esplicitamente dalla griglia computazionale, contenendo al contempo il costo numerico. Saranno analizzate formulazioni basate su porosità, connettività idraulica, relazioni di conveyance e altri parametri derivati da dati ad alta risoluzione. Le chiusure sviluppate saranno integrate in schemi 2D alle acque basse e valutate in ambiente di calcolo parallelo. La validazione avverrà su casi sintetici e applicazioni reali a scala urbana e territoriale, contribuendo allo sviluppo di strumenti più accurati ed efficienti per la previsione e la gestione del rischio da alluvione. <i>The project focuses on the development and implementation of subgrid closure models for parallel two-dimensional hydrodynamic codes aimed at simulating flooding over large-scale and geometrically complex domains. The objective is to improve the representation of hydraulic effects induced by topography, bathymetry, buildings, infrastructure, and morphological discontinuities that are not explicitly resolved by the computational grid, while keeping the numerical cost under control. Formulations based on porosity, hydraulic connectivity, conveyance relationships, and other parameters derived from high-resolution data will be investigated. The developed closures will be integrated into 2D shallow-water schemes and assessed in a parallel computing environment. Validation will be carried out on synthetic</i>

test cases and real-world applications at urban and territorial scales, contributing to the development of more accurate and efficient tools for flood forecasting and flood-risk management

RESPONSABILE DELLA RICERCA / RESEARCH MANAGER	
Prof.ssa Francesca Aureli – Professoressa di II fascia	
TITOLO DEL CONTRATTO DI RICERCA / TITLE OF RESEARCH CONTRACT	
Chiusure di sottogriglia per simulazioni idrodinamiche 2D parallele di allagamenti in domini complessi <i>Subgrid closure models for parallel 2D hydrodynamic flood simulations in complex domains</i>	
GRUPPO SCIENTIFICO DISCIPLINARE (GSD) / SCIENTIFIC DISCIPLINARY GROUP	
08/CEAR-01 Idraulica, Idrologia, Costruzioni Idrauliche e Marittime <i>08/CEAR-01 Hydraulics, Hydrology, Hydraulic and Maritime Structures</i>	
SETTORE SCIENTIFICO DISCIPLINARE (SSD) / SCIENTIFIC DISCIPLINARY SECTOR	
CEAR-01/B Costruzioni Idrauliche e Marittime e Idrologia <i>CEAR-01/B Hydraulic and Maritime Engineering and Hydrology</i>	
OBIETTIVO OGGETTO DEL CONTRATTO / OBJECTIVE COVERED BY THE CONTRACT	
Sviluppo di metodologie numeriche volte a incorporare opportunamente l'influenza esercitata, sul moto di una corrente idrica, da elementi territoriali e antropici di dimensioni inferiori alla risoluzione della griglia, nell'ambito di discretizzazioni a scala relativamente grossolana. Le metodologie saranno integrate in modelli idrodinamici bidimensionali parallelizzati e successivamente analizzate e validate in termini di accuratezza della soluzione, robustezza numerica, conservazione della massa ed efficienza computazionale. Development of numerical methodologies aimed at appropriately incorporating the influence on flow dynamics exerted by natural and anthropogenic features whose characteristic dimensions are smaller than the computational grid resolution, within relatively coarse-scale discretizations. The proposed methodologies will be implemented in parallel two-dimensional hydrodynamic models and subsequently assessed and validated in terms of solution accuracy, numerical robustness, mass conservation, and computational efficiency.	
PRINCIPALI ATTIVITÀ DI RICERCA OGGETTO DEL CONTRATTO / MAIN RESEARCH ACTIVITIES COVERED BY THE CONTRACT	
Attività 1	Analisi dello stato dell'arte sui modelli di sottogriglia per la simulazione idrodinamica 2D di allagamenti, con riferimento a porosità, connettività idraulica e parametrizzazioni morfologiche.
Attività 2	Sviluppo di chiusure di sottogriglia per rappresentare gli effetti idraulici di topografia, batimetria, edificato e infrastrutture non risolti dalla griglia computazionale.
Attività 3	Implementazione in codici 2D paralleli e valutazione dell'impatto delle chiusure su accuratezza, stabilità numerica, conservazione dei volumi e costo computazionale.
Attività 4	Validazione su casi sintetici e reali, a scala urbana e territoriale, mediante confronto con dati osservati, benchmark o simulazioni ad alta risoluzione.
Activity 1	<i>State-of-the-art review of subgrid models for 2D hydrodynamic flood simulations, with reference to porosity, hydraulic connectivity, and morphological parameterizations.</i>
Activity 2	<i>Development of subgrid closures to represent the hydraulic effects of topography, bathymetry, buildings, and infrastructure not resolved by the computational grid.</i>



Activity 3	<i>Implementation in parallel 2D codes and assessment of the impact of the closures on accuracy, numerical stability, volume conservation, and computational cost.</i>
Activity 4	<i>Validation on synthetic and real-world test cases, at urban and territorial scales, through comparison with observed data, benchmarks, or high-resolution simulations.</i>
SEDE PRINCIPALE DI SVOLGIMENTO DELLE ATTIVITÀ / MAIN PLACE OF THE ACTIVITIES	
Università di Parma - Dipartimento di Ingegneria e Architettura <i>University of Parma - Department of Engineering and Architecture</i>	
PROFILO PROFESSIONALE RICHIESTO / PROFESSIONAL PROFILE REQUIRED	
Il candidato dovrà possedere competenze in modellistica idraulica numerica, metodi di discretizzazione per equazioni alle acque basse e programmazione scientifica. Sono richieste capacità di sviluppo, implementazione e validazione di codici di calcolo per simulazioni idrodinamiche 2D, conoscenza di tecniche di calcolo parallelo e capacità di analisi di dati topografici e batimetrici. Costituirà titolo preferenziale la conoscenza di algoritmi di sottogriglia per la modellazione degli allagamenti. <i>The candidate should have expertise in numerical hydraulic modelling, discretization methods for the shallow-water equations, and scientific programming. Skills in the development, implementation, and validation of computational codes for 2D hydrodynamic simulations are required, together with knowledge of parallel computing techniques and the ability to analyse topographic and bathymetric data. Knowledge of subgrid algorithms for flood modelling will be considered an additional asset.</i>	
CONOSCENZE LINGUISTICHE RICHIESTE / LANGUAGE SKILLS REQUIRED	
Lingua Inglese Livello B2 QCER <i>English Language Level B2 QCER</i>	
INFORMAZIONI UTILI ALLA PRESENTAZIONE DELLA PROPOSTA PROGETTUALE DA PARTE DEI CANDIDATI / USEFUL INFORMATION FOR THE PRESENTATION OF THE PROJECT PROPOSAL BY CANDIDATES	
La proposta progettuale dovrà essere coerente con le attività di ricerca previste dal contratto e focalizzata sullo sviluppo di modelli di chiusura di sottogriglia per simulazioni idrodinamiche 2D di allagamenti. I candidati dovranno evidenziare competenze in modellistica numerica, idraulica computazionale e programmazione scientifica, preferibilmente in ambiente di calcolo parallelo. Sarà valutata positivamente la capacità di utilizzare dati topografici, batimetrici e territoriali ad alta risoluzione. La proposta dovrà includere una chiara strategia di implementazione, verifica e validazione dei modelli sviluppati. Particolare attenzione dovrà essere posta al bilanciamento tra accuratezza numerica, robustezza e sostenibilità computazionale. <i>The project proposal should be consistent with the research activities covered by the contract and focused on the development of subgrid closure models for 2D hydrodynamic flood simulations. Candidates should highlight their expertise in numerical modelling, computational hydraulics, and scientific programming, preferably in a parallel computing environment. Experience in the use of high-resolution topographic, bathymetric, and territorial data will be positively evaluated. The proposal should include a clear strategy for the implementation, verification, and validation of the developed models. Attention should be paid to balancing numerical accuracy, robustness, and computational efficiency.</i>	
N. MASSIMO DI PUBBLICAZIONI, BREVETTI e ALTRI PRODOTTI DOCUMENTABILI DELLA RICERCA PRESENTABILI / MAXIMUM NO. OF PUBLICATIONS, PATENTS and OTHER DOCUMENTABLE PRODUCTS OF THE RESEARCH CAN BE SUBMITTED	
12 (dodici) / 12 (twelve)	
DURATA DEL CONTRATTO / DURATION OF THE CONTRACT	
24 (ventiquattro) mesi / 24 months	



TRATTAMENTO ECONOMICO ANNUO / ANNUAL SALARY		
Importo annuo lordo dipendente / Gross annual amount (dependent)		Costo complessivo (Lordo Ente) / Total cost (Gross for the University)
39.224,28 € / anno (year)		54.910,05 € / anno (year)
FINANZIAMENTO DELLA POSIZIONE / POSITION FINANCING		
Fonti di Finanziamento / Sources of Funding		
• Fondi a disposizione del Dipartimento di Ingegneria e Architettura, derivati da economie di progetti di ricerca		
Progetto contabile / Accounting project	CUP	Importo / Amount
VACONDIO_R_ECO_RB	---	80.000,00 €
AURELI_F_ECO_RB	---	29.820,10 €
Totale		109.820,10 €

- ART. 2 -

ADMISSION REQUIREMENTS FOR SELECTION

Candidates are eligible to participate in the selection, including citizens of countries outside the European Union, who, **on the date of expiry of the deadline for submitting applications for participation**, meet one of the following **requirements**:

- PhD degree or equivalent qualification obtained abroad in one of the following fields:

CIVIL ENGINEERING or ENVIRONMENTAL ENGINEERING

or

- enrolment in the last year of a PhD programme or an equivalent foreign academic course in one of the following areas:

CIVIL ENGINEERING or ENVIRONMENTAL ENGINEERING

provided that the degree is expected to be obtained within 6 (six) months following the date of publication of this call for applications on the University's online bulletin board.

The referability of the PhD to one of the above-mentioned areas is ascertained by the Selection Committee.

The candidate, in **possession of a PhD qualification obtained abroad**, can participate in the selection by opting for one of the following **alternatives**:

- a) attaching, if already possessed, a copy of the academic recognition measure (former equivalence), by which the foreign qualification in Italy was conferred, assimilating it *on a one-off basis* to the Italian qualification required by the call for applications and allowing all the uses related to it, issued by the Ministry of University and Research (MUR) pursuant to art. 74 of Presidential Decree no. 382/1980 or, after 1 March 2022, by an Italian university or other Italian higher education institution pursuant to art. 38, paragraph 3.2, of Legislative Decree no. 165/2001¹;

or

- b) committing, in the event that he/she is declared the winner of the selection procedure, to activate the procedure for academic recognition (former equivalence) of the foreign doctoral qualification, pursuant to art. 38, paragraph 3.2, of Legislative Decree no. 165/2001, by submitting a specific application to an Italian university or other Italian higher education institution. For the purposes of this selection procedure, the application must be submitted within 15 (fifteen) days from the date of publication of the final ranking, under penalty of forfeiture;

or

¹ For more information on the academic recognition procedure (formerly equivalence), please see:

<https://www.mur.gov.it/it/aree-tematiche/universita/equipollenze-equivalenza-ed-equiparazioni-tra-titoli-di-studio/titoli-0>



- c) committing, in the event that he/she is declared the winner of the selection procedure, to activate the procedure for non-academic recognition (former equivalence) of the foreign doctoral qualification, pursuant to art. 38, paragraph 3, of Legislative Decree 165/2001,² by submitting a specific application to the Department of Public Administration and, at the same time, to the Ministry of University and Research (MUR) within 15 (fifteen) days from the date of publication of the final ranking, under penalty of forfeiture.

In the cases referred to in letters b) and c), the winner also undertakes to promptly send, in any case, within the aforementioned deadlines, to the e-mail address protocollo@unipr.it, the documentation certifying the initiation of the procedure for academic recognition (former equivalence) or non-academic recognition (former equivalence).

In the case of **enrolment in the last year of a PhD programme, in Italy or abroad, or an equivalent foreign academic course**, the candidate must declare the expected date for the achievement of the relevant qualification.

The Selection Committee ascertains that the course can be traced back to one of the areas indicated above and, in the case of a course carried out abroad, also assesses its correspondence to a PhD course, for the sole purpose of participating in the procedure. This assessment does not constitute or replace the recognition of the foreign qualification by the competent authorities according to current legislation.

For the purposes of the aforementioned investigations:

- in the case of a PhD course carried out in Italy, the candidate must declare, pursuant to Presidential Decree no. 445/2000, the elements necessary to verify the requirement, with particular reference to the name of the course, enrolment in the last year, the legal duration and the characteristics of the course useful for identifying the scientific-disciplinary field;
- In the case of a PhD course or equivalent academic course carried out abroad, the candidate must attach:
 - certificate issued by the competent University or Institution of Higher Education certifying enrolment in the last year of the PhD course or equivalent academic course, indicating the legal duration of the course and the expected date for obtaining the degree;
 - certificate containing the list of any exams taken and/or training activities carried out (*Transcript of Records* or equivalent document);
 - any other document useful for certifying the level, characteristics and contents of the academic career.

Documents drawn up in a foreign language must be accompanied by a translation into Italian or English, accompanied by a declaration of conformity of the translation to the original text in accordance with the procedures set out in this announcement.

The PhD student declared the winner may enter into the research contract only after obtaining the PhD degree. If the qualification is obtained abroad, the stipulation of the contract is subject to the prior recognition of the same in Italy by the competent authority. Failure to recognise the qualification will result in the forfeiture of the right to the awarding of the contract.

² For more information on the finalised recognition procedure (formerly equivalence), please see:

<https://www.mur.gov.it/it/aree-tematiche/universita/equipollenze-equivalenza-ed-equiparazioni-tra-titoli-di-studio/titoli-1>

<https://www.cimea.it/pagina-riconoscimento-non-accademico>

The application must be submitted on a special form, attaching the required documents, to the Presidency of the Council of Ministers (Department of Public Administration – P.P.A. Office – Recruitment Service) and, at the same time, to the Ministry of University and Research (MUR). The finalised recognition measure (former equivalence) will be issued only for participation in this competition procedure, so it must be requested again and the measure reissued, every time you want to participate in a competition. Pursuant to the provisions of paragraph 3 of art. 38 of Legislative Decree 165/2001, as amended by Law 69/2025, the Department of Public Administration concludes the recognition procedure only with regard to the winners, who have the burden, under penalty of forfeiture, of submitting an application for recognition within fifteen days of the publication of the final ranking, to the Ministry of University and Research. It should be noted that the deadline for concluding the procedure for issuing the measure of recognition of the foreign qualification by the Department of Public Administration on the opinion of the Ministry, is 150 days from the application and is suspended in the event that it is necessary to supplement the documentation. In any case, the measure must be produced to the Administration before taking up service.



If the PhD student does not obtain the degree within 6 (six) months from the date of publication of this call for applications on the University On-line Register, he/she loses the right to the conferral of the research contract and is removed from the ranking list.

Those who are not eligible to participate in the selection process:

- a) belong to permanent staff of universities, public research bodies and institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to Article 74, fourth paragraph, of Presidential Decree No. 382 of 11 July 1980;
- b) have benefited from fixed-term Researcher contracts pursuant to Article 24 of Law No. 240 of 30 December 2010, in the version in force after the date of entry into force of Legislative Decree No. 36 of 30 April 2022, converted, with amendments, by Law No. 79 of 29 June 2022 (RTT);
- c) have benefited from research contracts pursuant to art. 22 of Law no. 240 of 30 December 2010, in the version in force after the date of entry into force of Legislative Decree no. 36 of 30 April 2022, converted, with amendments, by Law no. 79 of 29 June 2022, also with different institutions, for a period that, added to the duration provided for in the contract advertised, exceeds a total of 5 (five) years, even if not continuous, taking into account that, for the purposes of the duration of the aforementioned relationships, periods spent on maternity leave or for health reasons according to current legislation are not relevant;
- d) have held positions referred to in Articles 22, 22-bis, 22-ter and 24 of Law 240/2010, also with different universities, state, non-state or telematic, with institutions of Higher Education in the arts, music and dance, with institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to Article 74, fourth paragraph, of Presidential Decree 382/1980, and with public research institutions, for a period that, added to the duration provided for in the contract announced, exceeds a total of 11 (eleven) years, even if not continuous, taking into account that, for the purposes of the duration of the aforementioned relationships, periods spent on maternity leave or for health reasons according to current legislation are not relevant;
- e) have a family or affinity relationship, up to and including the 4th degree, with a professor belonging to the Department who proposed the activation of the contract, or with the Rector, the Director General or a member of the Board of Directors;
- f) are excluded from the enjoyment of civil and political rights (for foreign citizens or those who do not hold refugee status or subsidiary protection, the enjoyment of civil and political rights refers to the country of citizenship);
- g) have been dismissed or dispensed from employment with a Public Administration for persistent insufficient performance, or have been declared forfeited from other state employment, pursuant to art. 127 letter d) of Presidential Decree no. 3 of 10 January 1957;

Candidates are admitted to the selection with reservations. Exclusion from the selection procedure for lack of requirements or for declarations made pursuant to Presidential Decree 445/2000 that are untrue may be ordered at any time, even after the selection has been carried out, with a reasoned Decree of the Rector. The exclusion will be notified directly to the interested party.

The Administration guarantees equality and equal opportunities between men and women for access to work and treatment in the workplace.

- ART. 3 -

APPLICATION FORM, TERMS AND PROCEDURES FOR SUBMISSION

The application for participation in the selection, together with the attachments, must be submitted, under penalty of exclusion, electronically, using the **dedicated IT platform "PICA"**, available at:

<https://pica.cineca.it/unipr/2026cdr012>

In this regard, candidates are invited to consult the [Guidelines](#) for filling out the application available at the same address.



The procedure for completing and sending the application form electronically, including any documentation required, must be completed no later than 11:59 p.m. (Italian time) on the 15th (fifteenth) day, starting from the day following that of publication of this decree on the University's online Notice Board. If the deadline indicated falls on a public holiday, the deadline is extended to the first working day.

The date of electronic submission of the application for participation in the selection will be certified by the PICA system; the receipt of the application and its subsequent registration will be notified to the candidate by means of two separate e-mail messages.

Each application will be assigned a unique identification number (application ID) and a protocol number visible within the application; for each subsequent communication, the application ID must be used together with the selection code **2026cdr012**.

Other forms of sending applications or documentation useful for participation in the selection are not allowed.

The computerized procedure for submitting applications and attachments will be deactivated strictly at the end of the deadline and the computer system will no longer allow access to the *form*, nor the submission of the application.

Should the unavailability of the IT procedure described be determined, the University of Parma reserves the right to communicate through its website, alternative methods for the submission of applications for participation in the selection and/or the right to extend the deadline for the submission of the application for a period corresponding to that of the duration of the malfunction.

The online application must be completed in all its parts, as indicated in the procedure; the required documents can only be attached in pdf format.

Under penalty of exclusion, the application must be signed by the candidate in one of the ways specified in the guidelines.

Within the deadline of the call, the candidate can withdraw his/her application using the PICA system; the receipt of the withdrawal application and its registration will be notified to the candidate by means of two separate e-mail messages. After the deadline of the call, any renunciation to participate in the selection, signed and dated, must be promptly communicated to protocollo@unipr.it or protocollo@pec.unipr.it together with a copy of an identity document, specifying the application ID together with the selection code.

To report problems of a purely technical nature, you can contact support via the link at the bottom of the <https://pica.cineca.it/unipr> web [page](#).

In the application, the candidate must indicate the domicile elected for the purposes of the selection, as well as a telephone number and e-mail address for communications from the University Administration.

Any changes must be promptly communicated to this University by e-mail to the following address: concorsipta@unipr.it

Furthermore, the Administration does not assume responsibility for the failure to receive communications, due to inaccurate indications from the competitor or from failure or late communication of the change of addresses and contact details indicated in the application, nor for any computer errors, in any case attributable to third parties, fortuitous events or force majeure.

After the expiry of the deadline of this call, no documentary integration will be admitted.

In the application for admission, the candidate must declare, under penalty of exclusion from the competition and under his/her own personal responsibility and awareness of the criminal sanctions provided for false declarations, pursuant to Presidential Decree no. 445/2000:

- a) surname, first name and tax code (if any);
- b) place and date of birth;
- c) citizenship held;
- d) residence with the indication of municipality, street, house number, province and postal code and, for the purposes of communications by the University Administration in relation to this selection, a telephone number



and an e-mail address and the domicile elected for the purposes of the selection. Any change in residence/domicile must be promptly communicated to the address concorsipta@unipr.it

- e) if an Italian citizen, the municipality in which he/she is registered, or the reasons for non-registration or cancellation from the same lists;
- f) if a foreign citizen, to enjoy civil and political rights in the country of origin, or the reasons for the lack of enjoyment;
- g) possession and specification of the requirements for admission to the selection procedure indicated in Article 2;
- h) that he/she does not belong to the permanent staff of universities, public research bodies and institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to art. 74, fourth paragraph, of the Decree of the President of the Republic no. 382 of 11 July 1980;
- i) not to have a family or affinity relationship, up to and including the 4th degree, with a professor belonging to the Department or Centre that proposed the activation of the contract, or with the Rector, the Director General or a member of the University's Board of Directors;
- j) that they have not benefited from fixed-term researcher contracts referred to in Article 24 of Law No. 240 of 30 December 2010, in the version in force after the date of entry into force of Legislative Decree No. 36 of 30 April 2022, converted, with amendments, by Law No. 79 of 29 June 2022 (RTT);
- k) that they have not benefited from research contracts pursuant to art. 22 of Law no. 240 of 30 December 2010, in the version in force after the date of entry into force of Legislative Decree no. 36 of 30 April 2022, converted, with amendments, by Law no. 79 of 29 June 2022, also with different institutions, for a period that, added to the duration provided for in the contract advertised, exceeds a total of 5 (five) years, even if not continuous, taking into account that, for the purposes of the duration of the aforementioned relationships, periods spent on maternity leave or for health reasons according to current legislation are not relevant;
- l) that he/she has not held positions referred to in Articles 22, 22-bis, 22-ter and 24 of Law No. 240 of 30 December 2010, including with different universities, state, non-state or telematic, with institutions of Higher Education in the Arts, Music and Dance, with institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to Article 74, fourth paragraph, of Presidential Decree 382/1980, and with public research institutions, for a period that, added to the duration provided for in the contract announced, exceeds a total of 11 (eleven) years, even if not continuous, taking into account that, for the purposes of the duration of the aforementioned relationships, periods spent on maternity leave or for health reasons according to current legislation are not relevant;
- m) that they have not been convicted of any criminal offences and that they have no criminal proceedings in progress; otherwise, the convictions, the proceedings against them and any criminal record must be indicated, specifying the date of the measure and the judicial authority that issued it or the one before which any criminal proceedings are pending. The existence of a previous criminal conviction is not in itself an obstacle to hiring, unless it is a conviction for a crime that prevents the establishment of an employment relationship with the public administration. In other cases, it will be the responsibility of the Administration to independently ascertain the seriousness of the criminally relevant facts committed by the person concerned, for the purposes of access to public employment. This check is carried out with the aim of ascertaining the existence of the fiduciary element that constitutes the fundamental prerequisite of the relationship between employer and employee, as well as for the purpose of assessing the existence of the requirements of moral suitability and aptitude to carry out the activities of public employee;
- n) not to have been dismissed from employment in a Public Administration for persistent insufficient performance and not to have been declared forfeited from a state employment, pursuant to art. 127 letter d) of Presidential Decree 10.1.1957 n. 3;
- o) that the copies of the attached publications and of the documents and titles submitted are true to their originals;
- p) that what is stated in their *curriculum vitae*, attached to the application, corresponds to the truth;
- q) to be aware that the contract can only be awarded if in possession of the title of PhD and, if obtained abroad, the provision of legal recognition in Italy of the same.



Pursuant to art. 3 of Presidential Decree no. 445/2000, citizens of non-European Union countries, legally residing in Italy, can use the substitute declarations only for:

- states, facts and qualities that can be certified or attested by Italian public bodies, without prejudice to the special provisions contained in the laws and regulations concerning the discipline of immigration and the condition of foreigners;
- states, facts and qualities that can be certified or attested in application of international conventions between Italy and the country of origin of the declarant, indicating the Convention invoked and the act by which it was transposed into Italian law.

Apart from the above-mentioned cases, the states, personal qualities and facts are documented by certificates or attestations issued by the competent authority of the foreign State, accompanied by a translation into Italian authenticated by the Italian consular authority certifying their conformity to the original.

Candidates with disabilities and/or disabilities recognized pursuant to Law no. 104 of 5 February 1992 and Law no. 68 of 12 March 1999, in the application form, must explicitly request the necessary assistance to be able to take the interview, in relation to their disability, to be documented, by means of a suitable certificate issued by the medical-legal commission of the ASL of reference or by an equivalent public structure. Failure to indicate in the application the request for aids and tools, as well as the failure to forward the required documentation, exempt the Administration from any task in this regard. The request must be drawn up following the instructions available in the online application procedure for participation in the competition procedure.

The University assumes no responsibility in the event of the unavailability of the candidate or for the dispersion of communications due to inaccurate indication of the address by the candidate or failure or late communication of the change of address indicated in the application, nor for any postal or telegraphic errors not attributable to the Administration itself.

- ART. 4 -

ATTACHMENTS TO THE APPLICATION FORM

The application must be accompanied by the following attachments, in non-modifiable format (PDF):

- a **research project that is developed within the framework of the research program** described in article 1 of this call, drawn up according to any specifications indicated;
- the **detailed list, dated and signed, containing the indication, in progressive order, of the publications and/or patents and/or other documentable research products**, provided that they are relevant to the research activity, which the candidate considers to be submitted to the evaluation of the Selection Committee, in the maximum number provided for in Article 1 of this call;
- the **publications and/or patents and/or other documentable research products**, mentioned in the list referred to in point b), in digital PDF format;
- curriculum vitae**, drawn up according to the European format, in Italian or English, duly dated and signed, containing the explicit and articulated statement of the training, as well as the scientific and professional activity;
- copy of a **valid identity document** (front and back) with visible signature, even for those signed with a digital signature. Those who are citizens of a European Union country must present their passport, or an identity document issued by their country of origin. Candidates from countries outside the European Union must present only their passport;
- any **other documentation** required under any specific conditions.

Publications, patents or other documentable research products contained in the respective lists, but not attached, as well as publications, patents or other documentable research products attached, but not included in the respective lists, will not be taken into consideration by the Selection Committee; in any case, damaged and/or illegible files will not be evaluated.



All patents and other documentable research products must be in possession at the time of submission of the application, as well as all publications must already be published within the same deadline. Publications, patents or other documentable research products sent after the deadline for the submission of the application will not be considered.

The candidate is required to comply with the maximum number of publications, patents or other documentable research products to be submitted, provided for in Article 1 of this call. If the list contains a higher number, only those that fall within the aforementioned limits, according to the ascending order of listing, will be taken into consideration for the purposes of evaluation. In the event of discrepancies between the list and the publications, patents or other documentable research products submitted, the list will prevail.

Documents drawn up in a foreign language must be accompanied by an Italian translation, certified as conforming to the foreign text by the competent diplomatic or consular representation, or by an official translator, in accordance with current legislation. An exception is made for publications in English, for which an Italian translation is not required.

- ART. 5 -

SELECTION COMMITTEE

The Selection Committee, established in accordance with art. 56 of the current "*Regulations for the awarding of research contracts, post-doc appointments and research assignments pursuant to articles 22, 22 bis and 22 ter of Law no. 240 of 30 December 2010*", is appointed by Decree of the Rector, on the proposal of the Department Council.

- ART. 6 -

SELECTION MODE

The selection is carried out by **means of a comparative evaluation of the candidates** and is aimed at evaluating:

- the adherence of the research project presented to the research program subject to the selection;
- possession of a scientific-professional curriculum suitable for carrying out the research activity covered by the contract.

The evaluation is supplemented by the conduct of an **interview**, in a public session, aimed at ascertaining the aptitude for carrying out the research activity covered by the contract and the implementation of the research project presented, as well as the knowledge of the English language.

For the evaluation of each candidate, the Selection Committee has a **maximum of 100 (one hundred) points** available, divided on the basis of the following criteria:

Evaluation Criteria	Maximum score that can be awarded
a) relevance, innovativeness, quality and methodology of the research project proposed by the candidate, with regard to the research program subject to the selection	30 points
b) quality and relevance of publications and/or patents and/or other documentable research products with the contents of the research program subject to the selection	10 points
c) relevance and relevance of the documented research activities previously carried out, as well as any duly attested professional experience, in relation to the contents of the research program subject to the selection	20 points
d) interview aimed at ascertaining the aptitude for carrying out the research activity covered by the contract and for the implementation of the research project presented, as well as knowledge of the English language	40 points



The Selection Committee, before examining the applications, analytically declines the aforementioned evaluation criteria, published on the University website (*Link: [Calls for Research Contracts](#)*³), in the section dedicated to this procedure, as well as the methods of evaluation of the same in order to assign the relative scores.

Candidates who have obtained a score of at least 30 (thirty) points in the evaluation of the criteria indicated in letters a) and b) and c) are admitted to the interview.

The notice containing the list of candidates admitted to the interview, with an indication of the score obtained by them in the evaluation of the criteria referred to in letters a), b) and c), as well as the communication of any changes with respect to what has already been announced, will be published on the University website (*Link: [Calls for Research Contracts](#)*³), with notification value to all interested parties, on **27 OCTOBER 2026**.

The interview will take place according to the following **calendar**:

Date and time	Procedure	Location
NOVEMBER 6, 2026 ore 09:00	In presence (*)	University of Parma Department of Engineering and Architecture – Scientific Headquarters Via delle Scienze 181/A, 43124 Parma https://dia.unipr.it/ ➔ Palazzina 2, Sala Riunioni

(*) The public form that distinguishes the interview will be guaranteed by allowing anyone to be able to attend it at the time of its development.

For the purposes of identification and under penalty of exclusion from the selection procedure, each candidate is required, before the interview begins, to identify himself/herself by showing a suitable identification document. Those who are citizens of a country of the European Union must present a passport, or an identity document issued by the country of origin. Candidates from countries outside the European Union must present only their passport.

The absence of the candidate from the interview will be considered as a waiver of the procedure, whatever the cause.

Once the evaluation has been concluded, the Commission shall draw up a merit ranking for each candidate, on the basis of the criteria referred to in points a), b), c) and d) above, and shall draw up a merit ranking list in descending order and identify the winner of the selection. The judgment of the Commission shall be final on its merits.

The selection is considered passed with a **minimum overall score of 70 (seventy) points out of 100 (one hundred) overall**.

The contract is stipulated with the candidate who has obtained the highest overall score, according to the order of the final ranking. In the event of equal merit, the youngest candidate is preferred.

- ART. 7 -

APPROVAL OF THE RANKING LIST

The acts of the selection procedure are approved by Rector's Decree, published on the *online Register* and on the website of the University of Parma in the section dedicated to the procedure, which can be reached via link to the web [page **Calls for Research Contracts**](#)³, which will declare the winner under a condition precedent of the verification of the requirements for admission to employment. From the day of publication of this decree, the deadline for any appeals begins.

The ranking list remains in force for 12 (twelve) months, starting from the date of approval of the acts, without prejudice to compliance with all the requirements for the activation of the research contract. No declarations of eligibility for selection will be made.

³ Extended web address: <https://www.unipr.it/bandi-di-selezione-contratti-di-ricerca>



The research contract may be awarded to an additional candidate who has been found to be suitable, according to the order of the respective ranking, in the following cases:

- renunciation of the employment formalized by the winner;
- forfeiture of the winner from the right to employment due to non-acceptance within the deadline set by the University or for other reasons provided for by law;
- failure to take service of the winner;
- early termination of the individual contract concluded with the winner.

During the period of validity of the ranking list, in the presence of further justified needs relating to the performance of the same research program, the Department Council may propose to the Rector the awarding of additional research contracts to candidates duly placed in the ranking list, provided that the availability of the relevant financial coverage has been ascertained.

- ART. 8 -

ESTABLISHMENT OF THE EMPLOYMENT RELATIONSHIP and ASSUMPTION OF SERVICE

The research contract is conferred through the stipulation of an individual fixed-term employment contract, with a duration of 24 (twenty-four) months, containing the rights and duties of the parties, to be signed within the term set by the University.

At the time of signing the contract, the interested party is invited to submit the documentation required pursuant to current legislation. Failure or incomplete delivery or failure to regularise it, within the prescribed deadline, will result in the forfeiture of the right to employment.

The winner who already has, on the date of expiry of the call, a PhD or equivalent qualification obtained abroad may enter into the research contract only after recognition of the same in Italy, according to one of the procedures provided for by current legislation and referred to in this call. Failure to recognise it will result in the forfeiture of the right to be awarded the research contract and elimination from the ranking.

The PhD student declared the winner of the selection may enter into the research contract only after obtaining the PhD title within 6 (six) months following the date of publication of this call for applications on the University's online Register. If the qualification is obtained abroad, the stipulation of the contract is also subject to the prior recognition of the same in Italy by the competent authority, according to current legislation. Failure to obtain the degree within the aforementioned term of 6 (six) months, valid for both Italian and foreign qualifications, as well as failure to recognize it in Italy according to the terms and procedures provided for by law only for qualifications obtained abroad, will result in the forfeiture of the right to the conferral of the research contract and elimination from the ranking.

Citizens of non-European Union countries, in order to sign the employment contract, must certify the regularity of their position regarding their stay in Italy, pursuant to the current provisions on immigration (Legislative Decree 286/1998).

In any case, those who, within the term set by the University, do not declare that they accept it or do not sign the relevant employment contract will lose the right to the conferral of the research contract.

The fixed-term employment relationship, under no circumstances, can automatically convert into an open-ended employment relationship.

The ownership of research contracts does not give any right to access the role of universities, public research bodies and institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to Article 74, fourth paragraph, of Presidential Decree No. 382 of 11 July 1980, nor can it be counted for the purposes of Article 20 of Legislative Decree No. 75 of 25 May 2017.

- ART. 9 -

EMPLOYMENT RELATIONSHIP



The contractor carries out research activities exclusively, articulates the work in agreement with the Research Manager and is required to give an account of his/her activity whenever requested; to this end, the compilation of a register or *time sheet* may be provided in which to periodically note the progress of the activity carried out.

The contractor is required to:

- submit, normally annually and, in any case, at the end of the report, to the Council of the Department a detailed report on the activities carried out, endorsed by the Head of Research;
- comply with the regulations of protection and safety in the workplace, including in the health field, in force at the University and is subject to the health checks provided for by Legislative Decree no. 81 of 9 April 2008;
- observe and comply with all the provisions of the University Code of Ethics, the Code of Conduct for public employees adopted by Presidential Decree no. 62 of 16 April 2013 and the University Code of Conduct. The violation by the contractor of these obligations constitutes a disciplinary offence.

The legislation on the protection of maternity and paternity, as well as the provisions for assistance, social integration and the rights of people with disabilities, apply to the employment relationship, as far as they are compatible.

The activity of the contractor is carried out at the headquarters of the structure concerned, without prejudice to the missions or off-site activities envisaged by the research project and/or those previously authorized by the Research Manager and approved by the Board of the same structure.

The University provides the contractor with the necessary support for the implementation of the activity covered by the contract, guaranteeing access to the premises, equipment and the use of technical-administrative services, compatibly with its organization, with the needs and with the resources available to the specific research program.

- ART. 10 -

INCOMPATIBILITY

The research contract is not compatible with:

- any other employment relationship, including part-time or fixed-term employment, with public and private entities;
- Holder, also at other universities or public research institutions, of a research grant, of a post-doc assignment conferred pursuant to art. 22 bis of Law no. 240 of 30 December 2010, of a research assignment conferred pursuant to art. 22 ter of Law no. 240 of 30 December 2010, as well as a fixed-term researcher contract pursuant to art. 24 of Law no. 240 of 30 December 2010;
- holders of scholarships or research grants, for any reason, conferred by national or foreign institutions, including the PhD scholarship and the emoluments related to the medical specialisation contract, except for those exclusively aimed at international mobility for research reasons.

The research contract is also incompatible with the attendance of bachelor's, master's or master's degree courses, research doctorates or specializations in the medical area, in Italy or abroad, and involves the placement on leave without allowances for the employee in service with public administrations.

The performance of assignments outside the University may be authorized by the Director of the Department, after consulting the Head of Research, in order to ensure the compatibility of the performance of the activities and after assessing the absence of conflicts of interest. The holder of the research contract may not, in any case, carry out activities that may lead to a situation of conflict of interest with the activities of the University of Parma or that do not allow the regular performance of the research activity.

- ART. 11 -

ECONOMIC, FISCAL, SOCIAL SECURITY AND INSURANCE TREATMENT

The holder of the research contract is paid the gross annual salary, net of charges borne by the University, indicated in Article 1 of this call, determined in relation to the commitment required and the complexity of the activities to be carried out. The amount is attributed to the holder of the contract in monthly installments of the same amount.



The employment relationship that is established between the University and the research contractor is governed by the provisions in force on the subject, also with regard to the tax, welfare and social security and insurance treatment, provided for income from employment.

The University also provides insurance coverage against accidents at work, occupational diseases and civil liability.

- ART. 12 -

PERSON IN CHARGE OF THE PROCEDURE AND RIGHT OF ACCESS TO DOCUMENTS

Pursuant to Law no. 241 of 7.08.1990 and subsequent amendments and additions:

Responsible administration	University of Parma
Subject-matter of the proceedings	Selection procedure for the awarding of research contracts, pursuant to art. 22 of Law 240/2010 and the current University Regulations
Office, digital domicile and Responsible for the procedure	Area Personale e Organizzazione / U.O. Reclutamento PEC: protocollo@pec.unipr.it Avv. Anna Maria Perta
How to view the documents and exercise the rights provided for by Law 241/1990 and subsequent amendments	To exercise the right of access to the so-called procedural documents, it is necessary to send a request to the University protocol using the form available on the website (link: 🔗 PD01: Request for access to the documents⁴)

- ART. 13 -

PROCESSING OF PERSONAL DATA

The personal data of the candidates, communicated to the University of Parma, will be processed, in paper or electronic form, for the sole purposes inherent in the performance of the selection and the management of any employment relationship, in compliance with the provisions in force. Candidates are invited to read the specific [🔗 information, provided pursuant to art. 13 of EU Regulation 2016/679⁵](#) – General Data Protection Regulation, published on the University website.

- ART. 14 -

SAFEGUARD OR POSTPONEMENT RULES

This announcement constitutes the "*lex specialis*" of the selection procedure and participation in the same implicitly implies the acceptance, without reservation, of all the provisions contained therein.

For all matters not covered by this call, please refer to the [🔗 "Regulations for the awarding of research contracts, post-doc appointments and research assignments, pursuant to articles 22, 22 bis and 22 ter of Law no. 240 of 30 December 2010"](#), mentioned in the introduction, as well as to the regulations in force in the matters covered.

The University of Parma will carry out checks on the veracity of the substitute declarations made for the winner and, if necessary, for suitable candidates, pursuant to art. 71 of Presidential Decree no. 445 of 28.12.2000. Should the check reveal the untruthfulness of the content of the declaration, the declarant will forfeit the benefits obtained on the basis of the untruthful declaration and, if necessary, the termination of the contract stipulated will be determined, without prejudice to the provisions of art. 76 of Presidential Decree no. 445 of 28.12.2000 on criminal sanctions.

⁴ Indirizzo web esteso: <https://www.unipr.it/node/12548>

⁵ Extended web address: <https://www.unipr.it/informative-privacy-0>



The Administration reserves the right, at its sole discretion, to extend or reopen the terms of this announcement, to make any changes or additions to this announcement that may be necessary, as well as to revoke or suspend it for supervening reasons of public interest.

An extraordinary appeal to the Head of State may be lodged against this measure within 120 days from the date of publication, or, in judicial proceedings, an appeal to the Regional Administrative Court, within 60 days from the same date.

- ART. 15 -

INFORMATION

For any information, interested parties can contact the Organizational Unit (O.U.) Recruitment, Via Università 12, 43121 Parma – Telephone numbers: 0521.034382 / 0521.034386 / 0521.034108 - E-mail address: concorsipta@unipr.it

The staff in charge receives the public by appointment only and answers phone calls from Monday to Friday from 9:00 to 11:00.

This call for applications, drawn up in Italian and English, will be announced by:

- ✓ publication on the online Register and on the website of this University at the web [page](#) [Calls for Research Contracts](#)⁶
- ✓ publication on [the recruitment portal InPA](#)⁷ - Department of Public Administration;
- ✓ publication of the notice on the website of the Ministry of University and Research (MUR), on the web [page](#) [MUR Calls](#)⁸
- ✓ publication of the notice on the European Union website, on the [EURAXESS - Researchers in motion web page](#)⁹

Unless otherwise specified, communications to candidates will be provided only by publication of the same on the University website, in the section dedicated to the procedure, which can be reached at the address indicated above.

These publications will have the value of notification to all intents and purposes. Candidates, in order to acquire all the necessary information, are therefore required, for the entire duration of the selection procedure, to consult the University's institutional website.

Prof. Paolo Martelli

Digitally signed pursuant to Legislative Decree no. 82/2005

U.O.R. Unità Organizzativa Responsabile	Area Personale e Organizzazione	Avv. Anna Maria Perta
R.P.A. Responsabile del Procedimento Amministrativo	U.O. Reclutamento	

⁶ Extended web address: <https://www.unipr.it/bandi-di-selezione-contratti-di-ricerca>

⁷ Extended web address: <https://www.inpa.gov.it/>

⁸ Extended web address: <https://bandi.mur.gov.it/>

⁹ Extended web address: <https://euraxess.ec.europa.eu/>