Disclaimers:
The official and legally binding call for applications is in Italian only. This document cannot be used for legal purposes and is only meant to provide information in English on the call for applications (Decree of the Rector n. 1291 of 04/12/2023). Please refer to the official call published on: https://www.uniud.it/it/albo-ufficiale
Any change and integration will be made available on the above mentioned web page. Therefore, no personal written communication regarding the examination date and/or competition results shall be provided to applicants.

Annex 1

Competition announcement for the assignment of 1 research grant at the University of Udine, entitled “Analysis supporting the civil construction design in the transition towards climate friendly practice in the Alpine Region” SSD: ICAR/09 (principal investigator, Giuliana Somma)

Art. 1
A selection procedure is hereby launched for the award of 1 research grant at the University of Udine, as identified in Attachment A which constitutes an integral part of the present announcement. The research grant is linked to the research project and is subject and conditioned upon the relative funding. The fellowship may be renewed, in compliance with Art. 22, Law No. 240 of 30 December 2010 (as in the text in force before the implementation of the Conversion Law of the D.L. 36/2022, L. 79/2022), Law No. 11 of 27 February 2015, and the current regulations of the University of Udine for awarding research grants, issued with the Rector’s Decree No. 182 of 31 March 2021. The renewal is subject to the scientific coordinator’s positive assessment of the researcher’s activities, an adequate scientific rationale, and a corresponding financial covering.

The research fellowship does not give rise to any right with regards to accessing University posts.

Any personal communication to candidates related to this selection will be sent exclusively to the email address indicated when registering for the selection, as mentioned in Art. 5.

Art. 2
The research grant described in this competition announcement and the required qualifications to apply for the position are identified in Attachment A. The lack of the admission requirements leads to the automatic exclusion from the competition procedure.

Possession of a PhD or equivalent degree obtained abroad or, only for the interested areas, of a medical specialization accompanied by an adequate scientific production, constitutes a preferential qualification for awarding the research fellowship of this selection, if it has not been provided as a mandatory requirement.
For the only purpose of the admission to the competition, the Examining Board (Art. 7) shall assess the equivalence of the qualification obtained abroad, except for the evaluation of the medical specialization qualification to which Article 38 of the Legislative Decree 165/2001 and subsequent modifications and additions, and EU regulations on the matter, shall be applied.

The Examining Board will proceed to the evaluation of the qualification obtained abroad according to the documentation attached to the application form. The Examining Board may exclude the candidate if the submitted documentation does not provide sufficient information for the assessment. Therefore, applicants must enclose all the documentation in their possession relating to their qualification in order to provide the Examining Board with sufficient information for assessment.

Candidates holding a qualification issued by a European Research Area country, if successful, must submit, if not already attached to the application form one of the following options:
- Supplement Diploma in English issued by the competent University.
- CIMEA Certificate of comparability of the foreign qualification, issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "diplome" service at https://cimea.diplo-me.eu/udine/#/auth/login

Candidates holding a qualification issued by a non-European Research Area country, if successful, must submit, if not already attached to the application form one of the following options:
- Declaration of the on-site value of the qualification and the certificate relating to the degree with examinations and grades. A certificate in a language other than Italian or English must be accompanied by an official translation into one of these languages (certified by the competent diplomatic-consular authority or certified by a court in Italy).
- CIMEA Certificate of comparability of the foreign qualification, issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "diplome" service at https://cimea.diplo-me.eu/udine/#/auth/login

If the Supplement Diploma or the statement/attestation of comparability are not available when signing the contract, the applicant must demonstrate that he/she has requested the documentation and submit it as soon as possible.

Any exclusion from the selection procedure due to lack of eligibility requirements, absence of required documents, failure to sign the selection application or submission of the selection application in a manner different from what is provided for in this call for applications will be communicated to applicants exclusively at the email address indicated in the application form.

Art. 3
The research grant referred to in this call for applications cannot be awarded:

a. to employees of Universities and the entities referred to in Article 22, section 1, of Italian Law no. 240 of 30 December 2010 (in the text prior to the reform introduced by Law no. 79 of 29 June 2022);
b. to those who have already been awarded research grants pursuant to Italian Law no. 240 of 30 December 2010 (prior to the reform introduced by Law no. 79 of 29 June 2022) for the maximum period provided by law, even if not continuously, excluding the period in which the grant was used in conjunction with the doctorate, up to the legal term of the relative course;
c. to those who have already benefited from research grants and fixed-term researcher contracts provided for, respectively, in Articles 22 and 24 of Italian Law no. 240 of 30 December 2010 (in the text prior to the reform introduced by Law no. 79 of 29 June 2022), for a total of 12 years, even if not consecutive;
d. to anyone who has a degree of kinship or affinity, up to and including the fourth degree, with:
   - the Rector, the Director General or a member of the Board of Directors of the University of Udine;
   - the scientific supervisor or a professor/researcher belonging to the department or organisation
     hosting the research grant in question.

The research grant provided for in this call for applications cannot be combined:

a) with scholarships of any kind, except for those granted by Italian or foreign institutions to
   supplement, by means of stays abroad, the fellow's training or research activities;

b) with other research grants;

c) with an employment relationship, even if part-time, without prejudice to the relevant provisions for
   employees of public administrations.

The grant awarded under this call for applications is also incompatible with simultaneous attendance at
university degree courses, either Bachelor's degree or Master’s degree courses, research Doctorates
with scholarships and medical specializations, in Italy or abroad.

Art. 4

Applicants must enclose with their application, under penalty of exclusion, the following documents:

a) their professional scientific CV, highlighting the candidate's aptitude for carrying out and
   implementing the research project (Attachment A);

b) their identity card, their passport or any other identification document¹;

c) (for candidates with a foreign qualification only) certification or self-certification of both the
   academic qualification required for the admission to the selection, and of the exams (with
   evaluation) took during the period of study abroad, and of any other document that can be useful to
   the evaluation of the degree by the Examining Board.

Applicants can attach to the application, publications and any other certification considered useful to
   demonstrate the qualification based on the research program (Attachment A) and to certify any
   research activity accomplished at public or private institutes (indicating the starting and ending date
   and the duration).

The documents and qualifications mentioned above must be submitted in Italian or English. Those that
   are not as requested will not be evaluated. Documents originally written in a language other than
   Italian or English must come with a translation in Italian or English, that the candidate will do on its own
   responsibility. The translation can be an abstract concerning the thesis.

Italian and Community candidates wishing to submit qualifications referring to conditions and facts
   attested by Public Administrations must proceed exclusively with self-certification.
   Non-EU citizens legally residing in Italy may self-certify only data that can be verified or certified by
   Italian public bodies. They may also use declarations in lieu when provided for by an international
   convention between Italy and the declarant's country of origin.

Non-EU citizens not residing in Italy cannot self-certify.

Only the qualifications possessed by the candidate on the date the application form is submitted and
   submitted in accordance with the procedures set out in Article 5 will be assessed.

¹ Please be aware that the residence permit is not an identification document.
Failure to submit mandatory documents provided for in this article will constitute grounds for exclusion from the selection.

**Art. 5**

The submission of the applications for the present call starts on December 14, 2023 at 2:00 pm (Italian time) and ends on January 23, 2024 at 2:00 pm (Italian time).

The application to take part in the selection must be completed, under penalty of exclusion, using the appropriate online procedure, available at the link [https://pica.cineca.it](https://pica.cineca.it)

The procedure involves an applicant registration step, for those who do not already have an account, and then an application completion step.

Once completed, the online application must be signed in the manner described in the online procedure (manual signature with attached identity document or digital signature), under penalty of exclusion from selection. The application does not have to be signed if you access the above-mentioned online procedure using your SPID ID.

The qualifications referred to in Article 4 must be attached to the application in .pdf format. Individual .pdf files may not exceed 30MB.

The application for participation in the selection is automatically sent to the University of Udine with the definitive closing of the online procedure.

The University Administration:
- is not responsible if it is impossible to read the submitted documentation in electronic format due to damaged files;
- shall not accept or take into consideration qualifications or documents received in paper form or by any means other than what is specified in this article.

Reference to documents or publications already submitted in connection with other competitions is not allowed.

The Administration is not responsible for any missing document or communication because of inaccurate indication of residence and/or address submitted by the candidate during the application. Also, the Administration is not responsible if the candidate has not communicated changes in this information, or has communicated them too late. The Administration is also not responsible for any postal or telegraphic problems not attributable to the Administration itself.

Applicants are advised not to wait until the last few days before the closing date to submit their application. The University accepts no responsibility for any malfunctions due to technical problems and/or overloading of the communication line and/or application systems.

**Art. 6**

The selection procedure is held in accordance with the modality indicated in Attachment A.

The test will aim to assess the general preparation, experience and aptitude for research of the candidate. It will consist in the evaluation of the professional scientific curriculum, of the publications and qualifications presented, and of the interview, where foreseen.
Art. 7

The Examining board for the competition is identified in Attachment A of the present competition announcement, of which it is an integral part.

At its first meeting, the Examining board shall appoint its President and Secretary, and establish the criteria and methods for evaluating the qualifications and the interview, where foreseen.

The results of the qualifications assessment must be disclosed to applicants during the interview, where foreseen.

The Examining board can award a maximum of 100 points (one hundred out of one hundred) to the selection.

At the end of the evaluation procedure, the Examining board shall formulate the general merit list based on the overall score of each candidate, and draw up the minutes of the whole competition procedure.

Based on the ranking list, the assignment is awarded to candidates who have obtained a minimum overall score of 70/100 (seventy out of one hundred).

The Examining board's judgement is final.

The ranking list will be made public exclusively through publication on the University's official website.

Applicants will not be notified of the outcome of the evaluation.

Those who do not declare their acceptance of the research grant and do not present themselves at the research centre within the deadline communicated by the latter, even if not formally, shall lose the right to receive it. Exceptions to this term will only be granted in cases of documented force majeure.

Art. 8

The research activity cannot be started before signing the contract defining the terms and conditions of the collaboration.

The activity covered by the research grant must have the following characteristics:

a) it must be carried out as part of the research programme covered by the grant and not be a merely technical support to it;
b) it must have a close connection with the realization of the research program for which the winner of the grant has been awarded the contract;
c) it must be continuous and, in any case, temporally defined, not merely occasional, and in coordination with the overall activity of the University;
d) it must be carried out autonomously, solely within the limits of the programme prepared by the programme supervisor, without predetermined working hours.

The researcher is required to submit a detailed written report on the work carried out and the results achieved, accompanied by the opinion of the scientific supervisor, to the reference organisation at the intervals set out in the contract. The researcher must also submit interim reports and timesheets, if requested by the reference organisation.
Either the fellow or the reference organisation may withdraw from the contract. The reference organisation may terminate the contract not only in the cases referred to in Article 9, sections 2 and 3, of the "Internal rules for awarding research grants pursuant to law 240 of 30 December 2010" of the University of Udine, but also in the event the research project and therefore the financial coverage on which the research grant is based cease to exist.

Art. 9
The following legal dispositions shall apply to the grant referred to in this call for applications:
- for tax matters, the provisions of Article 4 of Italian Law no. 476 of 13 August 1984, as subsequently amended and supplemented;
- for social security matters, the provisions of Article 2(26) et seq. of Italian Law no. 335 of 8 August 1995, as subsequently amended and supplemented;
- for mandatory maternity leave, the provisions of the Italian Ministerial Decree of 12 July 2007;
- with regard to sick leave, the provisions of Article 1(788) of Italian Law no. 296 of 27 December 2006 and subsequent amendments.

During the period of mandatory maternity leave, the allowance paid by INPS according to Art. 5 of the Italian Ministerial Decree of 12 July 2007 is supplemented by the University up to the full amount of the research grant.

The grant will be paid in monthly instalments.

Art. 10
The data collected as part of the procedure referred to in Art. 5 are necessary to properly manage the selection procedure, for any subsequent management of the research grant and for purposes related to managing services provided by the University. The University of Udine is the Data Controller. At any time, the data subject may request access, rectification and, depending on the University's institutional purposes, cancellation and restriction of processing or oppose the processing of their data. The data subject can always lodge a complaint with the Italian Data Protection Authority. The complete disclosure is available on the University of Udine website in the "Privacy" section, accessible from the home page www.uniud.it Direct Link: https://www.uniud.it/it/it/pagine-speciali/guida/privacy

Art. 11
For all matters not expressly mentioned in this call for applications, refer to the regulations in force on the subject cited in the introduction and to the "Internal rules for awarding research grants pursuant to Italian Law no. 240 of 30 December 2010" of the University of Udine, issued by Rector's Decree no. 182 of 31 March 2021.

Art. 12
The procedure supervisor is Dr Sandra Salvador, Head of the Research Services Area of the University of Udine.

The Responsible office at the University of Udine is "Area Servizi per la Ricerca - Ufficio Formazione per la Ricerca", via Mantica n. 31 - 33100 Udine, Italia.

To request information about the call for applications, please complete the following form available on the University of Udine website: https://helpdesk.uniud.it/SubmitSR.jsp?type=req&accountId=universityofudine&populateSR_id=42105
Attachment A

Responsabile scientifico della ricerca / Principal investigator:
Nome e cognome / Name and surname: Giuliana Somma
Qualifica / Position: Ricercatrice Universitaria / Researcher
Dipartimento / Department: Politecnico di Ingegneria e Architettura (DPIA) / Polytechnic of Engineering and Architecture
Area MUR / Research field: 08 - Ingegneria civile e Architettura
Settore concorsuale e Settore scientifico disciplinare / Scientific sector: 08/B3; ICAR/09 - Tecnica delle costruzioni

Titolo dell'assegno di ricerca / Topic of the research fellowship “assegnista di ricerca”:
I bandi sono consultabili dal sito dell'Ateneo, del MUR e di Euraxess / The calls are available on the University, MUR and Euraxess websites

Testo in italiano:
Analisi a supporto della progettazione edilizia nella transizione verso pratiche rispettose del clima nella Regione Alpina.

Text in English:
Analysis supporting the civil construction design in the transition towards climate friendly practice in the Alpine Region.

Obiettivi previsti e risultati attesi del programma di ricerca in cui si colloca l'attività dell’assegnista di ricerca / Foreseen objectives and results of the research programme performed by the research fellow “assegnista di ricerca”:
I bandi sono consultabili dal sito dell’Ateneo, del MUR e di Euraxess / The calls are available on the University, MUR and Euraxess websites

Testo in italiano:
Il programma di ricerca mira ad accelerare il trasferimento di tecnologie avanzate e di approcci moderni di costruzione rispettosi del clima ed efficienti dal punto di vista delle risorse, fornendo così al settore delle costruzioni, che causa direttamente e indirettamente più di un terzo delle emissioni di CO2 a livello mondiale, strumenti adeguati per sostenere lo European Green Deal. Il programma di ricerca si concentrerà sulla regione alpina centro-sud-orientale e analizzerà le opportunità offerte dalle moderne tecnologie esistenti e dagli approcci avanzati per la progettazione, la costruzione, la ristrutturazione e l'up-scaling degli edifici da un punto di vista ambientale. Il programma di ricerca analizzerà l'esistenza di barriere di vario tipo (ad esempio, legali, pratiche, economiche, ecc.) e svilupperà soluzioni moderne per superare le barriere esistenti. Inoltre, verranno sviluppati esempi comparativi di progettazione di edifici rispettosi del clima, sia a livello concettuale che in test dimostrativi, per produrre un documento con raccomandazioni e procedure per strutture verdi. Infine, verranno sviluppati corsi e seminari per studenti, professionisti e stakeholder interessati, per sostenere ulteriormente il trasferimento tecnologico in questo modo.

Il programma di ricerca analizzerà le barriere esistenti che ostacolano o limitano l’implementazione di pratiche rispettose del clima nel settore delle costruzioni e fornirà soluzioni che possono aiutare a superare tali ostacoli. Per far ciò, un insieme di strumenti (software, tabelle, abachi grafici, manuali, ecc.) verranno sviluppati e/o migliorati per aiutare gli attori dell’industria delle costruzioni a realizzare strutture rispettose del clima. Le soluzioni sviluppate copriranno principalmente due macroaree: materiali da costruzione rispettosi del clima e costruzioni ottimizzate dal punto di vista ambientale. Nella prima area, il progetto determinerà la presenza di barriere e formulera soluzioni per incentivare
L’uso di materiali ad impatto ridotto, con un’attenzione particolare al calcestruzzo. Più nel dettaglio, il progetto affronterà l’uso di cementi rispettosi del clima, l’uso di aggregati riciclati e l’uso di materiali di scarto. Partendo dalle differenze esistenti nelle pratiche e regolamenti tra i due paesi del consorzio, il progetto consegnerà un’analisi delle possibilità offerte da pratiche all’avanguardia che sono già in uso in almeno una delle due nazioni, ma forse non nell’altra. In più, analizzando i più recenti sviluppi nella produzione di calcestruzzi rispettosi del clima, il progetto fornirà un quadro in grado di consentire e/o velocizzare il loro uso nell’industria delle costruzioni. Rispetto alle costruzioni ottimizzate dal punto di vista ambientale, il progetto svilupperà esempi concettuali e fornirà strumenti per permettere una veloce analisi delle migliori soluzioni progettuali che possano ridurre l’impatto ambientale delle attività di costruzione, concentrandosi sia su strutture nuove che su strutture esistenti (rinforzo/riabilitazione strutturale.

Questa attività sarà focalizzata sulla valutazione in termini ambientali delle soluzioni strutturali proposte. L’obiettivo sarà quello di creare una semplice metodologia di valutazione delle prestazioni ambientali delle soluzioni (strutturali e/o non strutturali) adottate dal progettista. La novità sostanziale è rappresentata dal fatto che tale valutazione può essere effettuata autonomamente dal progettista nella fase di progettazione “ex-ante”, in modo da consentire al progettista stesso di apportare eventuali modifiche. Questo risultato è molto importante, soprattutto perché si cercherà di rendere questa metodologia semplice e quindi ampiamente diffusa, al fine di incoraggiare i progettisti a utilizzare materiali ed elementi strutturali (o non strutturali) eco-compatible nei loro progetti.

Text in English:

The research project aims at accelerating the transfer of advanced technologies and modern approaches of climate-friendly and resource-efficient construction, thus providing the construction sector, which directly and indirectly causes more than one third of CO2 emissions worldwide, with appropriate tools to support the European Green Deal. It will focus on the central-south-eastern Alpine region and analyse the opportunities offered by modern existing technologies and advanced approaches for the design, construction, refurbishment, and up-scaling of buildings from an environmental point of view. The project will analyse the existence of existing barriers of different types (e.g. legal, practical, economical, etc.) and develop modern solutions to overcome these barriers. In addition, comparative examples of climate- friendly building design will be developed, both conceptually and in demonstration tests, to produce a document with recommendations and procedures for green building. Finally, courses and seminars for students, practitioners, and relevant stakeholders will be developed to further support technology transfer in this way.

The research program will analyze existing barriers that hinder or limit the implementation of climate-friendly practices in the construction sector and provide solutions that can help overcome these obstacles. To do this, a set of tools (software, tables, graphic schedules, manuals, etc.) will be developed and/or improved to help construction industry players create climate-friendly structures. The developed solutions will mainly cover two macro areas: climate-friendly building materials and environmentally optimized constructions. In the first area, the project will determine the presence of barriers and formulate solutions to encourage the use of low-impact materials, with particular attention to concrete. In more detail, the project will address the use of climate-friendly cements, the use of recycled aggregates and the use of waste materials. Starting from the existing differences in practices and regulations between the two countries of the consortium, the project will deliver an analysis of the possibilities offered by cutting-edge practices that are already in use in at least one of the two countries, but perhaps not in the other. Furthermore, by analyzing the most recent developments in the production of climate-friendly concretes, the project will provide a framework capable of enabling and/or speeding up their use in the construction industry. With respect to environmentally optimized constructions, the project will develop conceptual examples and provide tools to allow a quick analysis of the best design solutions that can reduce the environmental impact of construction activities, focusing on both new structures and existing structures (reinforcement /structural rehabilitation).
This activity will focus on the environmental evaluation of the proposed structural solutions. The objective will be to create a simple methodology for evaluating the environmental performance of the solutions (structural and/or non-structural) adopted by the designer. The substantial innovation is represented by the fact that this evaluation can be carried out independently by the designer in the "ex-ante" design phase, in order to allow the designer himself to make any changes. This result is very important, especially because we will try to make this methodology simple and therefore widely spread, in order to encourage designers to use eco-friendly structural (or non-structural) materials and elements in their projects.

**Struttura dell’Università di Udine presso la quale verrà sviluppata l’attività di ricerca / Department or other structure of the University of Udine where research activities will be carried out:**

Dipartimento Politecnico di Ingegneria e Architettura (DPIA) / Polytechnic Department of Engineering and Architecture

**Importo dell’assegno di ricerca (al lordo oneri carico assegnista) / Total grant gross for the research fellowship:**

€ 40,534,00

**Durata dell’assegno di ricerca / Duration of the research fellowship “assegno di ricerca”:**

22 mesi / months

**Finanziamento / Financed by:**


**Requisiti di ammissione / Minimum qualifications necessary:**

- Possesso di un diploma di laurea vecchio ordinamento (ante decreto 3 novembre 1999 n. 509) o di laurea specialistica/maistrale (ex decreto 3 novembre 1999 n. 509 e decreto 22 ottobre 2004 n. 270) o titolo equivalente conseguito all’estero;
- possesso di un curriculum scientifico professionale idoneo allo svolgimento dell’attività di ricerca contemplata.
- University degree obtained before Decree n. 509 of 3 November 1999 or specialistic/Master’s degree (post decree n. 509 of 3 November 1999 and decree n. 270 of 22 October 2004) or equivalent degree obtained abroad;
- professional scientific curriculum suitable for the research activity above mentioned.

**Nota / Note:** Per la finalità della ricerca oggetto del presente assegno di ricerca è richiesta un’ottima conoscenza della lingua italiana, parlata e scritta. / For the purpose of the research object of this research grant, an excellent knowledge of Italian, spoken and written, is required.
Procedura selettiva / Competition procedure:

Valutazione per titoli e colloquio / Evaluation of titles and oral exam

I risultati della valutazione dei titoli saranno resi noti agli interessati nel corso del colloquio / The evaluation of the qualifications will be disclosed to candidates during the interview

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<tr>
<th>Calendario del colloquio / Calendar of the oral exam</th>
<th>Modalità / Modality</th>
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<td>10:00 / 10:00 am (Italian time)</td>
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Per sostenere il colloquio i candidati devono esibire un valido documento di riconoscimento. / Candidates must come to the interview with a valid identity document.

Eventuali variazioni saranno rese note esclusivamente mediante pubblicazione all’albo ufficiale on line dell’Ateneo / Any change will be made public solely through publication on the University web site [http://web.uniud.it/ateneo/normativa/albo_ufficiale](http://web.uniud.it/ateneo/normativa/albo_ufficiale)

Commissione giudicatrice / Examining Board:

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<th>Nome e Cognome</th>
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<td><strong>Membri Effettivi / Permanent members</strong></td>
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<td>Giuliana Somma</td>
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<td>Margherita Pauletta</td>
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<td>Paolo Angeli</td>
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<td>Anna Frangipane</td>
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