



Departmental provision n. 199 of 30/09/2026
Competition for awarding 1 scholarship for postgraduate research activities at the University of Udine – Department of Engineering and Architecture

DISCLAIMER:

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 (Departmental provision n. 199 of 30/09/2026). 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

Call for applications for the awarding of a scholarship for postgraduate research activities at the Politechnic Department of Engineering and Architecture of the University of Udine. Scientific Research Manager prof. Cristian Marchioli.

Article 1

a selection procedure is hereby launched for the awarding of a scholarship for post-graduate research activities (hereinafter referred to as a research scholarship) at the Politechnic Department of Engineering and Architecture (hereinafter referred to as DPIA) of the University of Udine.

Research programme	Title of the research scholarship: Numerical modelling of flexible-fibre dynamics in turbulence, with applications to industrial processes. Brief description of the planned activities: The research activity will focus on the development and validation of numerical models for simulating the dynamics of flexible fibres transported by turbulent flows, with particular reference to industrial applications involving the production and transport of mineral fibres. The activity will include: * developing Lagrangian models for deformable fibres; * coupling these models with DNS/LES of turbulent flows; * analysing the effects of deformability on transport statistics; * investigating fibre-turbulence interactions in terms of orientation, deformation, and clustering; * implementing fibre-fibre collision models and assessing their effects on the spatial distribution of fibres; * validating the models through comparison with experimental and numerical data available in the literature. The research aims to: * understand the mechanisms governing the interaction between turbulence and flexible fibres; * develop advanced numerical tools for predicting fibre behaviour;
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	* improve the description of fibre dispersion, orientation, and aggregation processes; * provide models for optimising industrial processes involving the production of mineral fibres.
Area, Group and Disciplinary Scientific Sector, ERC Sector	Area: Ingegneria industriale e dell'informazione GSD (Academic Field): 09/IIND-01 Ingegneria Aerospaziale e Navale SSD (Academic Sector): IIND-01/F Fluidodinamica (Fluid Dynamics) ERC: Physical Sciences and Engineering (PE)
Eligibility requirements required on the date of submission of the application	1. Qualifications: Master's Degrees in class in Mechanical Engineering, Aerospace Engineering, Energy Engineering, Mathematical Engineering, Physics, Mathematics, or a related discipline (Ministerial Decree no. 270 of 22 October 2004) and qualifications equivalent to it pursuant to the D.I. of 9 July 2009 Any additional requirements: 2. Knowledge of the English language 3. Research experience in computational multiphase fluid dynamics and Eulerian-Lagrangian methods based on direct numerical simulation
Eligibility requirement required on the expiry date of the call	Not to have reached the age of thirty-five
Scientific Research Manager	Prof. Cristian Marchioli
Funding	External resources available to the Department/Scientific Research Manager.
Venue of the activities:	Polytechnic Department of Engineering and Architecture Via delle Scienze no. 206 - UDINE
Duration of the research scholarship:	12 months
Size of the research scholarship:	Euro 22.500,00 (gross)
Frequency of payments	Monthly deferred
Selection method	Assessment of qualifications via TEAMS 15/10/2026 at 14.30 pm

The awarding of the research scholarship, aimed solely at the training of the holder, shall not constitute an employment relationship nor give any right to access the roles of the University.

Any personal communications to applicants relating to this selection shall be sent exclusively to the email address indicated during the application process.



Article 2

The research scholarship covered by this call for tenders and the related eligibility requirements are indicated and described in Article 1.

Candidates in possession of a degree obtained abroad not already declared equivalent under current legislation must submit:

- a) a copy of the qualification obtained abroad accompanied by the list of exams taken and related marks;
- b) any other documentation useful for assessing the suitability of the degree (Diploma Supplement, etc.).

This documentation must be accompanied by a translation into Italian or English signed under the responsibility of the candidate (if the documentation is not already in Italian or English).

The Committee shall assess the qualification obtained abroad on the basis of the documentation enclosed with the application to take part in the selection and may exclude any applicant if the documentation submitted does not provide sufficient elements for the assessment. Applicants are therefore invited to enclose all documentation in their possession relating to their qualifications in order to provide the Committee with sufficient elements to assess their position.

Applicants shall be admitted conditionally to the selection process and their exclusion, for failure to meet the requirements, may be ordered at any time with a measure indicating the reasons.

Article 3

The research scholarship referred to in this call cannot be awarded to those who have a degree of kinship or affinity, up to the fourth degree including:

- with the Rector, the Director General or a member of the Board of Governors of the University of Udine;
- with the scientific research manager or a professor or researcher belonging to the department where the research scholarship is based.

Additional conditions of incompatibility are governed by the Scholarships for postgraduate research activities Regulations.

Article 4

Applicants must submit an application to take part in the selection, duly signed in handwritten or digital form in line with the procedures described in Article 5 below. An application without a signature will result in the **exclusion** of the applicant from the selection procedure, except in the case of access using the Italian Public Digital Identity System (SPID), in which case a signature will not be required. The application to take part must be uploaded in its entirety (i.e. with all pages included) otherwise the applicant will be **excluded** from the selection process.

Applicants must enclose the following with their application for taking part in the selection, **under penalty of exclusion**:

1. professional scientific curriculum vitae, dated and signed, highlighting the aptitudes of the candidate suitable for carrying out the research scholarship programme, illustrated in Article 1;
2. copy of a valid identity document or other valid identification document. Citizens of non-EU states must enclose a copy of their passport or a copy of their Italian identity document and valid residence permit, if in possession thereof;
3. limited to citizens of non-EU states residing or authorised to reside in Italy, a copy of their residence permit or authorisation to reside in Italy;



4. documentation proving possession of the academic qualification required for admission to the selection process or self-certification of possession of such a qualification, subject to the conditions set out below. Any possession of a higher academic qualification shall not exempt the candidate from producing such documentation, and failure to produce it shall result in exclusion:
- **Applicants who are Italian citizens or citizens of a European Union Member State** must submit a declaration in lieu of certification and, if necessary, a notarial deed regarding the academic qualification required for admission (indicating the academic qualification, the academic institution awarding the qualification, the year it was awarded and the mark obtained) and the publications and other qualifications held, indicating for each one all the identification details required to allow the Committee to assess them. **Applicants must declare on the application form their possession of the academic qualification required for eligibility and this will count as a declaration in lieu of certification.** If the subject matter of the declaration in lieu is not clearly identified in terms of its nature, duration, time setting and the institution concerned, the Award Committee will disregard it. The Administration reserves the right to carry out appropriate checks on the truthfulness of the content of the declarations made; in the event of a false declaration, the provisions of Article 76 of Presidential Decree no. 445/2000 and Articles 483, 485 and 486 of the Italian Criminal Code shall apply. The University will disregard any certificates attached by applicants who are Italian citizens or citizens of a state belonging to the European Union.
 - **Citizens of a non-EU State** must submit documents and qualifications in Italian or English or any additional language indicated in Annex A, under penalty of exclusion from the selection process or, as the case may be, they will not be assessed. Documents and qualifications, originally in a different language, must be accompanied by a translation, made by the candidate under his or her own responsibility, into Italian or English or any other language indicated in Annex A. With reference solely to a thesis, the translation may be limited to an extended abstract.
 - **Citizens of a non-EU State regularly residing in Italy** may use declarations in lieu of certification only in respect of statuses, personal qualities or facts that may be certified or attested by Italian public bodies, without prejudice to the special provisions contained in the laws and regulations governing immigration and the status of foreigners.
 - **Citizens of non-EU states authorised to reside in Italy** may use the aforementioned declarations in lieu in cases where they are produced pursuant to international conventions between Italy and the declarant's country of origin.

Applicants may also enclose with their application for assessment purposes their publications, any letters of reference from scientific personalities and any other qualification deemed useful to prove their suitability in relation to the research programme described in Article 1 and attest any research activity carried out in public and/or private entities (with indication of the starting date and duration). For this documentation, candidates must follow the rules indicated in point 4 of the previous paragraph.

Only qualifications possessed by the applicant on the date of submission of his or her application for selection and submitted in accordance with Article 5 will be assessed.

Any exclusion from the selection procedure due to a lack of the requirements for eligibility, the absence of compulsory documents, failure to sign the application for taking part in the selection process or due to the submission of the application according to procedures other than those provided for in this call for applications will be communicated to interested parties exclusively by email to the email address indicated in the application to take part in the selection process.



Article 5

Registration for this selection process will start on 05th October 2026 at 2 p.m. (Italian time) and end on 13th October 2026 at 2 p.m. (Italian time).

The application to take part in the selection must be filled in, under penalty of exclusion, using the appropriate online procedure, available at <https://pica.cineca.it/>.

For those who do not already have a pica user account, the procedure includes a registration phase for the applicant, and a subsequent phase for filling out the application online

Once completed, the application must be signed in the manner described in the online procedure (handwritten signature, with attached identity document, or digital signature), under penalty of exclusion from the selection process. The application does not have to be signed if the above-mentioned online procedure is accessed using the Italian Public Digital Identity System (SPID) or the Electronic Identity Card (CIE). The information entered on the application form shall constitute a declaration in lieu of certification and affidavit, pursuant to Articles 46 and 47 of Presidential Decree no. 445/2000.

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

It is not permitted to submit attachments to the application in the form of links to files residing on 'online storage/file sharing' services or web pages. Reference to documents or publications submitted to this or other administrations or to documents attached to an application to take part in other selection procedures is not permitted

The application for taking part in the selection process will automatically be sent to the University of Udine with the final closure of the online procedure.

The University Administration:

- accepts no liability in the event that it is impossible to read the submitted documentation in electronic format due to damaged files;
- does not accept or take into consideration any qualifications or documents received in paper form or by any other means than those specified in this Article.

The Administration accepts no liability in the event of incorrect indication by the applicant of his or her email address or in the event of failure or delay in communicating a change in the email address indicated in the application, nor for any online errors attributable to third parties, unforeseeable circumstances or force majeure.

Applicants are advised not to wait until the last few days before the deadline date for submitting their application to take part in the selection process. The University accepts no liability for any malfunctions due to technical problems and/or overloading of the communication line and/or application systems.

Article 6

The test will aim to assess the candidates' preparation and aptitude for research. It will consist of an assessment of the curriculum vitae, publications, scientific and academic qualifications, documented research activities in public and private entities, and letters of reference from scientific personalities; if provided for in Article A, the test will also consist of an interview with the applicants. Failure of the applicant to attend the interview will be considered as a renunciation of taking part in the selection, whatever the cause.



Applicants who intend to avail themselves of the benefits provided for by Article 20 of Law no. 104 of 1992, in relation to their disability condition, must request them in the application form, specifying the aid needed in relation to their disability condition as well as the possible need for additional time, in order for the Administration to prepare in good time the means and tools to guarantee the envisaged benefits. Such candidates must send appropriate medical certification together with their application; failure to submit the medical certification shall exempt the Administration from any obligation in this regard.

Article 7

The Award Committee is composed as follows:

Standing members:

Prof. Marina CAMPOLO

Prof. Giulio CROCE

Dott. Alessio ROCCON

Alternate members:

Prof. Alfredo SOLDATI

At its first meeting the Committee shall appoint its Chairperson and Secretary taking the minutes and establish the criteria and procedures for assessing the qualifications.

The Commission has a total number of 100 points attributable to the qualifications, if any.

At the end of its work, the Committee shall draw up the overall ranking list on the basis of the total marks obtained by each applicant and prepare the minutes indicating the various competition operations.

Candidates who have received the minimum overall mark (qualifications) of 70/100 (seventy out of one hundred) will be considered suitable.

The research scholarship shall be awarded, according to the order of the ranking, by order of the Head of the Department and will start from the date indicated in the provision itself.

The provision will be made public exclusively by publication in the official register of the University:
<https://www.uniud.it/it/albo-ufficiale>.

Any applicant who does not declare his or her acceptance of the research scholarship or does not show up at the entity where the research activity is to be carried out by the deadline communicated by the entity to the email address indicated by the applicant in their application, shall forfeit his or her right to the research assignment, except in the case of any health reasons or reasons of force majeure duly documented and promptly notified.

In the event of non-acceptance of the research scholarship or failure to show up at the entity by the notified deadline, the eligible candidates on the ranking list will be approached based on the order of ranking.

In the event that the holder renounces the research scholarship after the start thereof, the University will consider whether or not to proceed with approaching other applicants on the ranking list.

Successful applicants with qualifications obtained abroad, must submit, if not already attached to their application for taking part in the selection process:



- **For degrees issued by a country that is a party to the Lisbon Convention** (<https://www.enic-naric.net/>), **the following documentation:**
 - Diploma Supplement or similar certificate in English issued by the competent university;
 - "Certificate of Verification of a Foreign Qualification - CIMEA" issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "dipl~~ome~~" service at <https://cimea.diplo-me.eu/udine/#/auth/login>
- **For degrees issued by a country that is not a party to the Lisbon Convention** (<https://www.enic-naric.net/>), **one of the following options:**
 - Declaration of Validity in loco of the qualification held and the certificate relating to the qualification with examinations and grades. A certificate in a language other than Italian or English must be accompanied by an official translation into one of those languages (certified by the competent diplomatic-consular authority or sworn at a court in Italy);
 - "Certificate of Comparability and Verification of a Foreign Qualifications - CIMEA" issued by CIMEA (Information Centre on Academic Mobility and Equivalence) via the "dipl~~ome~~" service at <https://cimea.diplo-me.eu/udine/#/auth/login>

If the aforementioned documentation is not available at the time of acceptance of the research scholarship, the holder must prove that he or she has requested it and submit it as soon as possible; if it is not submitted within two months of the start of the research scholarship, the candidate will forfeit the assignment and will be required to repay any sums received up to that moment under the contract.

Article 7

The research activity cannot start before formal acceptance of the research scholarship and its commencement.

The holder of the research scholarship shall be required to submit a detailed written report on the work carried out and the results achieved, together with the opinion of the Scientific Supervisor, to the reference entity by the deadlines specified in the contract. The holder of the research scholarship must also submit interim reports and timesheets if requested by the reference entity and/or the Scientific Supervisor.

The holder of the research scholarship is entitled to use the equipment of the department or entity at hosting his or her research activity and to use the services available to the university's permanent staff in accordance with the internal rules in force.

The holder of the research scholarship is bound to strict confidentiality regarding the data and information he or she becomes aware of in the course of performing the research activity. At the request of the Scientific Supervisor, he or she will be required to sign an appropriate confidentiality agreement.

Industrial property rights over the results achieved by the holder in the performance of the research activity belong exclusively to the University, without prejudice to the moral right to be recognised as the creator or inventor.

With reference to the confidentiality and ownership of the results, Article 8(5) of the Scholarships for postgraduate research activities Regulations applies, in addition to any internal requirements.

The holder of the research scholarship must comply with the University's open access policies and make their research products available on the IRIS catalogue, subject to the opinion of the Scientific Supervisor.



The holder of the research scholarship shall carry out his or her activities in compliance with the University's Code of Ethics and Conduct. As a member of the academic community, the holder of the research scholarship shall be required to comply with the University's Statute of Autonomy as well as the internal rules and regulations adopted by the governing bodies of the University.

The University reserves the right to revoke this call for applications for reasons of public interest, should the research project and/or the funding on which the research assignment is based cease to exist. In the event that such grounds arise after the acceptance of the research scholarship, the University may withdraw from it without notice.

Article 8

The tax and social security treatment provided for by law, in force at the time of disbursement of the amount, shall apply to the research scholarship referred to in this call.

The research scholarship will be disbursed in monthly instalments.

The cost of insurance cover for accidents and third-party liability shall be borne by the holder of the research scholarship, if not already covered by the University.

Article 9

The data collected as part of the procedure referred to in Article 6 are necessary for the proper management of the selection procedure, for the possible subsequent management of the research scholarship and for purposes related to the management of the services provided by the University. The University of Udine is the Data Controller. At any time, the data subject may request access, rectification and, compatibly with the institutional purposes of the University, erasure and restriction of processing or object to the processing of his or her data. Data subjects can always lodge a complaint with the Italian Data Protection Authority. The full privacy policy is available on the University of Udine website in the 'privacy' section accessible from the home page [www.uniud.it](https://www.uniud.it/it/it/pagine-speciali/guida/privacy) Direct Link: <https://www.uniud.it/it/it/pagine-speciali/guida/privacy>

Article 10

Although not expressly provided for in this call, reference is made to the current legislation on the subject and to the 'Scholarships for postgraduate research activities Regulations' of the University of Udine issued by rector's decree no. 556 of 7 August 2025.

Article 11

The person in charge of the procedure is Roberta Fabbro, Head of Departmental Services of the University of Udine - Politechnic Department of Engineering and Architecture - University of Udine.

The reference office at the University of Udine is The Segretariat of the Politechnic Department of Engineering and Architecture.

This call for applications, including Annex A, is written in Italian and English. In the event of any conflict or discrepancy between the two versions, the Italian language version shall prevail.