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UNIVERSITÀ DEGLI STUDI  
DI SALERNO

Area III – Didattica e Ricerca

UOR: Ufficio Formazione Post Laurea

THE RECTOR

OMISSIS

DECREES

PUBLIC COMPETITION TO AWARD TWO GRANTS FOR RESEARCH ACTIVITY (ASSEGNO DI RICERCA)  
(ITALIAN LAW DECEMBER 30 2010, N° 240, EX ART. 22)

*Art. 1*  
*General Provisions*

A public selection is announced, based on qualifications and interview, for the awarding of 2 grants for carrying out research activities at the Department of Civil Engineering/DICIV and the Department of Industrial Engineering/DIIN of the University of Salerno.

The research grants referred to in this call will have a duration of 36 (thirty-six) months, as provided for by the "NANAQUA – Application, effects and fate of nanomaterials in water treatment" project, without prejudice to the provisions of the following articles 9 and 11.

The overall duration of the relationships established pursuant to this call, including any renewals, cannot however exceed three years, excluding the period in which the grant was used to coincide with the research doctorate, up to the maximum limit of the legal duration of the relevant Course.

The grants for carrying out research activities will be awarded for the implementation of the research projects indicated below:

<i>Supervisor</i>	<i>Project title</i>	<i>Number of grants</i>	<i>Project duration</i>	<i>CUN Area</i>	<i>Field</i>	<i>Sub-field</i>
Prof. Luigi Rizzo	Optimization of heterogeneous photo-Fenton processes for enhanced CECs degradation in wastewater treatment (DC5)	1	36 months	08	08/CEAR-02	CEAR-02/A
Prof.ssa Giuseppina Iervolino	Nanostructured catalytic materials for disinfection and CECs degradation in wastewater by non-thermal plasma treatment (DC4)	1	36 months	09	09/ICHI-02	ICHI-02/B



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More specific information about the two projects can be requested to the respective professors in charge, namely Luigi Rizzo ([l.rizzo@unisa.it](mailto:l.rizzo@unisa.it)) (DC5) and Giuseppina Iervolino ([giervolino@unisa.it](mailto:giervolino@unisa.it)) (DC4).

### **Art. 2**

#### ***Grant amount, tax regime, social and security coverage***

The gross three-year all-inclusive amount ("living allowance") of the grant for carrying out research activities is equal to **€ 119,217.60** (three-year gross recipient: €96,647.00) and it will be paid through postponed monthly instalments.

Tax regime and social coverage according to in force Italian laws will be applied to the grant (namely, Article 4 of Law no. 476 of 13 August 1984, as well as, in social security matters, those of Article 2, paragraphs 26 et seq. of Law of 8 August 1995, n° 335, and subsequent amendments, regarding compulsory maternity leave, the provisions of the decree of the Minister of Labor and Social Security of 12 July 2007, published in the Official Gazette no. 247 of 23 October 2007, and, regarding sick leave, article 1, paragraph 788, of Law no. 296 of 27 December 2006, and subsequent amendments). During the period of compulsory maternity leave, the allowance paid by the I.N.P.S., pursuant to article 5 of the decree of 12 July 2007, is integrated by the University up to the entire amount of the research grant.

The grant holder is also entitled to a three-year all-inclusive gross amount of **€21,600.00** (three-year gross recipient: €17,510.00), to support personal mobility costs ("mobility allowance"), and to a three-year all-inclusive amount gross of **€17,820.00** (three-year gross recipient: € 14,446.00), if at the start date of the research activities he/she has contracted marriage (or has a relationship with a status equivalent to marriage recognized by the legislation of the country in which the relationship is formalized) or has dependent children effectively supported ("family allowance").

### **Art. 3**

#### ***Eligibility requirements***

Italian or foreign citizens who meet the requirements indicated below may apply for the public competition referred to in this call, without age or citizenship limitations:

<b><i>Project title</i></b>	<b><i>Eligibility requirements</i></b>
Optimization of heterogeneous photo-Fenton processes for enhanced CECs degradation in wastewater treatment (DC5)	<ol style="list-style-type: none"> <li>1. Master of Science achieved in Italy or equivalent degree achieved in a foreign Country, in one of the following area: environmental engineering, civil engineering, chemical engineering, environmental science, chemistry, physics or similar or equivalent degrees, which formally entitles them to embark on a doctorate;</li> <li>2. must not have a PhD degree;</li> <li>3. a scientific CV suitable for the finalization of the research activity;</li> <li>4. good knowledge of written and spoken English language (to be assessed during the interview);</li> <li>5. must not have resided or carried out her/his main activity (e.g. work, studies, etc.) in Italy for more than 12 months in the last 3 years immediately prior of the deadline for the submission of this application (mandatory services (e.g., military service) and holiday periods are not counted).</li> </ol>



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Nanostructured catalytic materials for disinfection and CECs degradation in wastewater by non-thermal plasma treatment (DC4)

1. Master of Science achieved in Italy or equivalent degree achieved in a foreign Country, in one of the following area: chemical engineering, environmental science, chemistry, physics or similar or equivalent degrees, which formally entitles them to embark on a doctorate;
2. must not have a PhD degree;
3. a scientific CV suitable for the finalization of the research activity;
4. good knowledge of written and spoken English language (to be assessed during the interview);
5. must not have resided or carried out her/his main activity (e.g. work, studies, etc.) in Italy for more than 12 months in the last 3 years immediately prior of the deadline for the submission of this application (mandatory services (e.g., military service) and holiday periods are not counted).

Applicants do not meet these requirements within the deadline for submitting the application will not be eligible for the grant.

In the event that the candidate holds the qualification referred to in paragraph 1 of this article obtained abroad and the same has not been recognized as equivalent on the basis of international agreements or with the methods referred to in article 2 of the L 11 July 2002, n° 148, the Examining Commission referred to in the following article 5 will evaluate, for the sole purpose of participation in the public selection, the conformity of the same with the similar qualification issued by Italian Universities.

Permanent staff of Universities and Public Research and Experimentation Institutions and Bodies, of the National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) and of the Italian Space Agency (ASI), as well as the institutions whose scientific specialization diploma has been recognized as equivalent to the Ph.D. title pursuant to article 74, paragraph 4, of the Presidential Decree 11 July 1980, n° 382, is excluded for the awarding of the grant.

Furthermore, anyone who has a degree of kinship or affinity, up to and including the fourth degree, with a professor belonging to the proposing Department or Center, or with the Rector, the General Director, or a member of of the University Board of Directors, is also excluded for the awarding of the grant.

#### ***Art. 4 Application***

The application for the grant, as well as the qualifications, documents and publications deemed useful for the purposes of the competition, must be submitted, under penalty of exclusion, exclusively electronically, using the dedicated IT application on the web page: <https://pica.cineca.it/unisa/diciv-diin-2024-adr0124>

The IT application will necessarily require you to have an email address in order to self-register on the system. The candidate must enter all the data required to produce the application, and attach the documents in electronic PDF format. It will be possible to attach a maximum of no. 30 documents for publications and n. 30 documents for other qualifications to be evaluated.

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

- o detailed curriculum vitae, duly signed by the candidate, relating to scientific, academic and professional activity (if not expressly reported in the degree certificates referred to in the following points, the candidate must indicate in the curriculum the final mark obtained for both the master's degree and the bachelor's degree three-year degree, as well as the list of exams taken in both the



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three-year degree and the master's degree, complete with the related training credits and the related grade obtained);

- o master's degree certificate (or equivalent) with relative final evaluation, complete with the list of exams taken and the grade obtained;
- o three-year degree certificate (or equivalent) with relative final evaluation, complete with the list of exams taken and the grade obtained;
- o master's thesis in pdf format, in English or Italian. If written in another language, the candidate can send an extended summary in English in PDF format;
- o cover letter (max 2 pages) with motivations and description of one's knowledge and skills which are considered relevant to the research activities of the respective project of this call;
- o any publications, complete with identifying data (authors, title, journal/book, number of pages, year of publication);
- o any other document deemed suitable to prove professional qualification, scientific production and aptitude for research (letters of introduction from academic supervisors or previous employers (max 3); certificate attesting to the level of knowledge of the English language;
- o any other qualifications that the candidate deems appropriate to submit (e.g., documented research activities at public or private bodies with contracts, scholarships or assignments, specialization diplomas, Master's diplomas, certificates of attendance at post-graduate specialization courses, achieved in Italy or abroad)
- o list, signed by the candidate, of all documents and qualifications presented.

Other forms of sending the application or useful documentation for participation in the procedure are not permitted.

**The candidate is also required to indicate the email address where he intends to receive the access link for the interview as well as any communications relating to the competition, and to undertake to promptly report any changes that may occur subsequently.**

The procedure for filling in and sending the application electronically must be completed **no later than 12:00 (Central European Time CET) on December, 6<sup>th</sup>, 2024**. To this end, the computerized procedure referred to in this article will be closed by the aforementioned deadline and the system will no longer allow access and sending of the electronic form.

Within the aforementioned peremptory deadline, the system allows saving the application in draft mode. The date of electronic submission of the application will be certified by the IT system itself through a specific receipt which will be automatically sent via e-mail to the candidate.

An identification number will be assigned to each application together with the competition code indicated in the IT application, which must be specified for any subsequent communication.

The submission of the application must be completed and concluded according to the following methods:

- by digital signature, using smart cards, USB tokens or remote signatures, which allow the owner to sign generic documents using PC signature software or a web portal for Remote Signature made available by the Certification Authority. Anyone who has a smart card or a USB Digital Signature token will be able to verify its compatibility with the Digital Signature system integrated into the server system. In the event of a positive outcome, the owner will be able to sign the application directly on the server (e.g. ConFirma);
- those who do not have compatible digital signature devices and Remote Digital Signature Holders who have access to a portal for signing generic documents will have to save the PDF file generated by the system on their PC and, without modifying it in any way, digitally sign it in CADES format: a file with the .p7m extension will be generated which must be loaded onto the system again. Any modification made to the file before affixing the Digital Signature will prevent the automatic verification of the correspondence between the content of this document and the original and this will result in the exclusion of the application;



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- If it is impossible to use one of the above options, the candidate must save the PDF file generated by the system on their PC and, without modifying it in any way, print it and place a complete handwritten signature on the last page of the printout. This complete document must be scanned into PDF, and the file thus obtained must be uploaded to the system.

The University will proceed to verify the self-certifications made pursuant to articles 46 and 47 of the Presidential Decree. 28 December 2000, n° 445.

#### **Art. 5** **Evaluation Committee**

The Evaluation Committee is appointed by the Rector, upon proposal of the respective Department.

The Evaluation Committee is made up of three assistant professors or professors of whom:

- one is the Principal Investigator of NANAQUA project;
- one is the Supervisor of the specific project (DC4 and DC5, respectively);
- the other/others belong to the scientific-disciplinary sector to which the project belongs to or to similar sectors.

The Committee is chaired by a full professor or, failing that, by an associate professor, or, in the absence of both, by an assistant professor.

The Committee formulates the final ranking of the public competition according to the scores awarded.

#### **Art. 6** **Competition**

The competition is finalized through the evaluation of candidates' qualification and an interview.

The evaluation Committee can award a maximum score of **100**, according to the following criteria:

- |  |                                 |
|--|---------------------------------|
| ➤ type of MSc degree   | a score up to <u>30</u> ;       |
| ➤ scientific publications, academic and scientific qualifications: | ..... a score up to <u>30</u> ; |
| ➤ interview:   | a score up to <u>40</u> .       |

The Evaluation Committee preliminarily establishes, in the first meeting, the criteria and methods for evaluating the qualifications within the limits set by this call, possibly setting a minimum score for admission to the interview, as well as the criteria and methods for carrying out the same.

The candidates will be informed about the result of the qualification evaluation before the interview takes place.

For the purposes of the final ranking, the score awarded to the evaluation of qualifications is added to that one of the interview.

The Evaluation Committee will define the **final ranking** according to the decreasing order of the overall scores awarded to each candidate.

According to art. 3, paragraph 7, of Law 15 May 1997, n° 127, as amended by art. 2 of Law no. 191 of 16 June 1998, if two or more candidates obtain the same score at the end of the competition, the younger candidate will be preferred.

The competition documents as well as the final ranking will be approved with the Rector's Decree, and the winners of the competitions will be proclaimed accordingly. It is possible to appeal against



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this provision to the competent judicial authority within the legal deadline, starting from the date of publication of the provision itself on the University's Official Noticeboard.

The University will notify the winners of the competition.

#### **Art. 7** **Interview**

The interview will take place in English and will aim to evaluate the candidate's ability to carry out the tasks of the research project, as well as to evaluate communication skills and level of English language.

It will take place starting from **December, 17<sup>th</sup>, 2024, at 10:00 am (Central European Time CET)** electronically, after using the Skype or Microsoft Teams platforms. Depending on the number of candidates will be invited to, interviews may continue in the following days on the dates and times that will be communicated to the candidates by the Committee.

This communication has the legal value of notification for all legal purposes.

Candidates invited to the interview will receive specific communications from the Committee regarding the connection method. They must be equipped with audio-video technical devices suitable for carrying out the interview via videoconference. The candidate must be available at the personal email address communicated in the application form, on the day and time indicated for the interview.

The verification of the identity of the candidates will be verifiable by showing, at the time of the interview, the original of the identification document whose details were indicated in the application form.

Failure or incorrect communication of the personal email address, failure to connect and/or unavailability of the candidate on the established day and time, or failure to show the identification document, will be considered as a waiver of participation to the interview, and therefore to the selection, unlike of the reason.

The interview will focus on the following topics:

<b>Number of grants</b>	<b>Project title</b>	<b>Topic for the interview</b>
1	Optimization of heterogeneous photo-Fenton processes for enhanced CECs degradation in wastewater treatment (DC5)	Water treatment processes, advanced oxidation processes
1	Nanostructured catalytic materials for disinfection and CECs degradation in wastewater by non-thermal plasma treatment (DC4)	Chemical reactions in cold plasma catalytic reactors based technology.

#### **Art. 8** **Contract and project/grant starting**

The awarding of the grant is formalized through the stipulation of a private law contract between the University and the successful candidate, who is called to sign the agreement and





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simultaneously produces, in original or certified copy, the documents certifying possession of the requirements requested in the call as well as the qualifications stated in the application.

The winner is considered to have **withdrawn** if he/she does not show up within the set deadline or does not produce the required documentation.

The contract must analytically specify the assigned work program, as well as the number and frequency of periodic checks referred to in the following article 9, with the specification that in the event of a negative opinion, the relationship will be terminated.

### **Art. 9**

#### ***Tasks, rights and duties of grant holders***

The grant holder participates in the research program and related technical–scientific activities of the “NANAQUA – Application, effects and fate of nanomaterials in water treatment” project in direct collaboration with the teaching and research staff, carrying out the tasks assigned by the principal investigator and respective supervisor in conditions of autonomy and without predetermined working hours.

The grant holder also participates in the schools and training courses provided as part of the “NANAQUA – Application, effects and fate of nanomaterials in water treatment” project with other “beneficiaries” and “partners” of the consortium, in accordance with the provisions of “NANAQUA” project.

The grant holder will also have the obligation to carry out a period of research activity abroad with two project partners for a minimum total duration of seven months (please see the following table), according to the rules of the specific European program (Marie Skłodowska–Curie Innovative Training Network) on which the grant is financed, and of the NANAQUA project (as per Grant Agreement):

<b><i>Project title</i></b>	<b><i>Period abroad: beneficiary/partner and duration</i></b>
Optimization of heterogeneous photo–Fenton processes for enhanced CECs degradation in wastewater treatment (DC5)	3 months in Australia at Western Sydney University and 4 months in Belgium, at the InOpSys company
Nanostructured catalytic materials for disinfection and CECs degradation in wastewater by non–thermal plasma treatment (DC4)	3 months in France at the “WATCHFROG” and 4 months in Estonia, at the “University of Tartu”

The grant holders may carry out, with their own consent and without any consequent rights of any kind, supplementary teaching activities, exclusively on topics relevant to the research project.

They have the right to make use, for the purposes of carrying out research activities, of the laboratories and equipment of the relevant departments in which they carry out the activity. In the event that the activity must be carried out outside the University of Salerno, it must be expressly authorized by the Principal Investigator of the project and communicated to the Administration.

Research activity must be **suspended** due to **maternity**.



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Furthermore, research activity can be **suspended** exclusively for serious and duly certified illness.

The periods of suspension, with the exception of the mandatory one for maternity, can be recovered at the end of the natural expiry of the contract, by agreement with the Principal Investigator and the respective supervisor and in compliance with the limits imposed by the available funding.

In the event of compulsory maternity leave, the contract is automatically extended in accordance with the legislation in force.

#### ***Art. 10*** ***Periodic check***

Grant holders are required to submit detailed reports on the research activity carried out to the respective Department on a periodic basis not exceeding one year.

#### ***Art. 11*** ***Revocation of the grant and withdrawal of the holder***

If the grant holder does not regularly and continuously work to her/his tasks without justified reason, or is responsible for serious and repeated shortcomings, or in the event of a negative judgment following a periodic check, or for another justified reason, the Principal Investigator, listened the supervisor, may propose the **revocation** of the **grant**, to be arranged with a specific decree of the Rector, having obtained the favourable opinion of the relevant Department.

The grant holder has the right to **withdraw** from the relationship by giving notice to the Administration at least thirty days in advance; otherwise, a sum corresponding to one month's salary will be withheld.

#### ***Art. 12*** ***Incompatibility***

The grant is **incompatible** with employment relationships, even for a fixed term, without prejudice to the possibility that the holder is placed on leave without grant for the entire duration of the contract, according to the art. 22, paragraph 3, of Law no. 240 of 30 December 2010.

Furthermore, the grant is **incompatible** with income deriving from professional activities or employment relationships carried out on a continuous basis.

**Cumulation** with **scholarships** awarded for any reason is not permitted, except those granted by national and foreign research institutions for the purpose of integrating, with stays abroad, the specific activity envisaged in the work program carried out by the holder.

The grant is also **incompatible** with participation in Bachelor's, Specialist or Master's Degree Courses, Research Doctorate Courses with scholarship, University Masters or Medical Specialization.

Research grants do not give rise to rights regarding access to university staff positions.

#### ***Art. 13*** ***Dissemination of the call***

This call is published on the Official Noticeboard of the University of Salerno, accessible via the University website at the address: <http://web.unisa.it/amministrazione-trasparente/albo>, as well as in the page website of the relevant Office: <http://web.unisa.it/ricerca/assegni-ricerca/bandi>.





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#### **Art. 14**

#### **Processing of personal data and Procedure Manager**

The University of Salerno, as a Public Administration, according to art. 1, paragraph 2, of Legislative Decree 165/2001 and its subsequent amendments and additions, pursues objectives of general interest, operates under administrative law and exercises public powers, consistently with the EU Regulation of the European Parliament and of the Council dated 27 April 2016. Therefore, the processing of personal data, in the exercise of its institutional tasks, finds the basis of lawfulness in the condition provided for by the art. 6, par. 1, of the aforementioned Regulation, and the legal basis in the specific University Regulation issued with Rectoral Decree 18 July 2019, Rep. n° 7327, Prot. n° 201636.

In this regard, the University of Salerno guarantees that the processing of personal data will be based on principles of lawfulness, correctness and transparency towards the interested party.

In particular, personal data will be collected in an adequate, relevant and limited manner for the purposes connected and instrumental to this competition notice and the possible management of the relationship with the University, and subsequently processed in a manner compatible with this purpose. They will be, if necessary, updated and stored in a form that allows the identification of the interested parties for a period of time not exceeding the achievement of the aforementioned purposes, as well as for statistical purposes, following the adoption of adequate technical and organizational measures to protect the rights and the freedoms of the interested party.

The processing of personal data will be carried out in the following ways: computerized and paper-based. Consent to the processing of the aforementioned data is mandatory for the completion of the competition procedure referred to in this call, and for the possible management of the student's academic career; consequently, any refusal to provide the data will not allow the aforementioned competition procedure to be carried out and the management of the academic career. The data may be communicated to public or private entities, also through inclusion on the University website, for obligations imposed by legal provisions; to this end, the processing will be handled by University staff.

Candidates have the right to: obtain confirmation of the existence or otherwise of personal data concerning them, even if not yet registered, and their communication in an intelligible form; obtain access, rectification, cancellation and object to processing; exercise the right to limit the processing not only in case of violation of the conditions of lawfulness of the processing, and as an alternative to the deletion of the data themselves, but also pending a request from the owner for rectification of the data or opposition to the treatment; exercise the right to object to profiling; exercise the right to data portability only if the processing is based on consent according to art. 6. par. 1, letter a), or art. 9, par. 2, letter a) of the EU Regulation or on a contract according to art. 6, par. 1, letter b) of the EU Regulation and is carried out by automated means; exercise the right to be forgotten by requesting the deletion of your personal data if these have been made public online.

The data controller of personal data is the University of Salerno, with registered office in Fisciano (SA) at via Giovanni Paolo II, 132, in the person of its legal representative, Rector Pro-tempore, PEC: [ammicent@pec.unisa.it](mailto:ammicent@pec.unisa.it).

The person responsible for the protection of personal data is the Manager authorized by the Data Controller, in relation to his/her functions and responsibilities, for data protection: PEC: [protezionedati@pec.unisa.it](mailto:protezionedati@pec.unisa.it).

The external manager of the processing of personal data is the CINECA Interuniversity Consortium, in the capacity of supplier of the relevant service – with headquarters in via Magnanelli 6/3 – 40033 Casalecchio di Reno (BO), PEC: [cineca@pec.cineca.it](mailto:cineca@pec.cineca.it).

The internal person responsible for the processing of personal data is the Head of the Post Graduate Training Office – Dr. Giovanni SALZANO – tel. 089/966242, e-mail: [gsalzano@unisa.it](mailto:gsalzano@unisa.it).



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Administrative manager of the procedure, according to articles. 4 et seq. of Law 7 August 1990, n° 241, and subsequent amendments, is the Head of the Post Graduate Training Office – Dr. Giovanni SALZANO – tel. 089/966242, e-mail: [gsalzano@unisa.it](mailto:gsalzano@unisa.it).

***Art. 15***  
***Final rules***

For anything not covered by this call for competition, the following rules apply: those contained in Law 30 December 2010, no. 240, in the Ministerial Decree 9 March 2011, in the University Regulations for the awarding of grants for carrying out research activities, in the Presidential Decree. 9 May 1994, n° 487, as well as the other provisions in force regarding grants for collaboration in research activities.

IL RETTORE  
Vincenzo LOIA

*firmato digitalmente ai sensi del Dlgs 82/2005*