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**NOTICE OF PUBLIC SELECTION FOR THE AWARD OF N. 7 PHD SCHOLARSHIPS THAT WILL FLOW INTO THE PHD COURSES IN *DIGITAL MEDICINE, MOLECULAR MEDICINE, TRANSLATIONAL RESEARCH AND INNOVATIVE TECHNOLOGIES APPLIED TO NUTRITION AND PREDICTIVE AND PRECISION MEDICINE AND LIFE SCIENCES* (D.R. N. 861 OF 08.07.2022) PHD COURSES FOR THE A.Y. 2022/23**

**PLEASE NOTE: THE OFFICIAL VERSION OF THIS CALL IS IN ITALIAN AND IS AVAILABLE ON THE MAGNA GRÆCIA UNIVERSITY WEBSITE (D.R. 1392 – 02.11.2022)**  
**THIS TRANSLATION CANNOT BE USED FOR LEGAL PURPOSES AND IS ONLY MEANT TO PROVIDE INFORMATION IN ENGLISH ON THE CALL FOR APPLICATION**

**DEADLINE: 14 NOVEMBER 2022, 12 A.M. (Italian time)**

**THE DEAN DECLARES**

**Art. 1 – Public Selection Announcement**

In accordance with the provisions pursuant to Decree MUR n. 1049 – 23.06.2022 the University of the Studies Magna Græcia of Catanzaro announces the public selection, through competitive examinations, to award n. 7 PhD scholarships that will flow into the PhD courses in *Digital Medicine, Molecular Medicine, Translational Research And Innovative Technologies Applied To Nutrition And Predictive And Precision Medicine* and *Life Sciences* (D.R. n. 861 of 08.07.2022) and allowing the enrolment in the aforementioned PhD courses for the A.Y. 2022/23. The allocation of scholarships will allow the enrolment in the aforementioned PhD courses of the XXXVIII cycle at the University Magna Græcia of Catanzaro.

**This call and the award of the above scholarships is subject to the actual transfer from the competent ministry of financial resources** related to the Research and Innovation Programme entitled "Tech4You - Technologies for climate change adaption and quality of life improvement" for the realization of the Ecosystem of innovation called "Tech4You - Technologies for climate change adaption and quality of life improvement" **and the evaluation of the Academic Bodies of the University regarding the adequate availability of the same financial resources.**

**This notice is to be notified in full. Any changes, updates or additions will be made known, exclusively, by publication on the University's website at <https://web.unicz.it/it/category/bandi-ateneo>.**

The University reserves the right to modify, extend, suspend this selection procedure and not to award scholarships in relation to new legal provisions or for proven reasons of public interest, without any claim or right arising for the aspirants.

In **Annex A - Analytical Sheets of Research Projects, an integral part of this call**, are indicated the research projects and their specifications, including the PhD Course in which they converge and their curriculum.

**Each candidate at the time of submission of the application for participation in the selection must express the order of priority of projects of interest.**



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N. 7 scholarships will be awarded to the winners according to the general ranking of merit, based on the order of priority of the projects expressed by the candidates.

**The order of priority expressed in the application for participation, by means of a declaration replacing the document of recognition, will be a binding criterion for the award of the PhD grant.**

### Art. 3 – Admission requirements

Applications may be submitted for participation in the selections for the award of n. 7 PhD scholarships indicated in Annex A - Analytical Sheets of Research Projects, without restrictions on age or citizenship, those who have a master's degree (D.M. n.270/2004) belonging to one of the classes indicated in the following table, or to a master's degree (D.M. n.509/1999), or to an old university degree (before D.M. n.509/1999), equivalent to the D.I. 9 July 2009, or a foreign qualification, as well as those who obtain at an Italian University the degree required for admission, under penalty of forfeiture from admission in the event of successful selection, by the date of enrolment in the doctoral course and, in any case, no later than 31.12.2022:

LM-6 Biology	LM-60 Sciences of Nature
LM-9 Medical, Veterinary and Pharmaceutical Biotechnology	LM-61 Sciences of Human Nutrition
LM-13 Pharmacy and industrial pharmacy	LM-67 Sciences and techniques of preventive and adapted motor activities
LM-21 Biomedical Engineering	LM-68 Sports sciences and techniques
LM-27 Engineering of Telecommunications	LM-70 Food Science and Technology
LM-29 Electronic Engineering	LM-71 Science and Technology of Industrial Chemistry
LM-31 Management Engineering	LM-73 Forest and Environmental Science and Technology
LM-32 Computer Engineering	LM/GASTR Economic and social sciences of gastronomy
LM-33 Mechanical Engineering	LM/SNT2 Rehabilitation sciences of health professions
LM-41 Medicine and surgery	LM/SNT3 Sciences of the technical health professions
LM-51 Psychology	
LM-54 Chemical Sciences	

Foreign qualification suitability will be established by the Ph.D. committee following the guidelines and current regulations in Italy and in the qualification issuing Country, as well as of treaties or international agreements on qualification recognition for further study and will have to be confirmed by the Academic Senate.

**In the case of a qualification obtained abroad, candidates must attach to their application in appropriate section "RICONOSCIMENTO TITOLO ESTERO" the request for recognition of the qualification** (exclusively for purpose of participating in the competition) and any document which might be relevant to the assessment, translated and certified by the relevant Italian bodies in the country of origin, and following current regulations for the admission of foreign students to Italian University post-graduate programmes.

**The fac simile of the request is available on the website <https://web.unicz.it/it/category/bandi-ateneo>. Anyone expected to obtain their Italian degree** in the period between application and the and the date of



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enrolment in the course **will be admitted conditionally and will be expected to present to Area Affari Generali, University Magna Graecia of Catanzaro, within five (5) days from the obtainment of the qualification, a statement *in lieu of the certificate***, containing the name of the qualification issuing University, the date of obtainment, the type of diploma (*vecchio ordinamento, specialistica/ magistrale*) and relative marks, accompanied by a valid piece of ID, **exclusively via PEC (certified electronic mail)** at [protocollo@cert.unicz.it](mailto:protocollo@cert.unicz.it).

The PEC must be sent by the personal account of PEC and a copy of a valid identity document must be attached. Institutional PEC accredited to public bodies are not allowed. In the event that the candidate is not the holder of a PEC but makes use of the power of representation referred to in Article 38, c. 3 bis of Presidential Decree no. 445 of 28 December 2000 and subsequent amendments, it is necessary to transmit, in addition to the substitutive declaration of certification of the qualification, also the delegation conferred on the holder of the PEC. The proxy must be accompanied by the valid identity documents of both parties who sign the proxy (delegator and delegate).

The subject of the PEC must include: Domanda di partecipazione Bando n. 7 borse di dottorato Tech4You.

#### **Art. 4 – Applications procedures**

Applications for participation in the selection process may only be submitted in one of the following ways:

- sent by PEC;
- delivered by hand, including by courier, in a sealed envelope.

**Applications must be received, under penalty of forfeiture, no later than 12 A.M. (Italian time) on 14 November 2022** in one of the following ways:

- sent by PEC to the certified e-mail address [protocollo@cert.unicz.it](mailto:protocollo@cert.unicz.it).

**Only candidates of foreign nationality residing abroad can send, within the same period, the application for participation by ordinary e-mail to [affarigenerali@cert.unicz.it](mailto:affarigenerali@cert.unicz.it), configured to accept ordinary emails.**

The application must be sent by Certified Electronic Mail users (PEC); Institutional PEC credited to public institutions are not admitted. **Applications sent from a simple/ordinary mailbox or sent by an institutional JEP will therefore be excluded. In the event that the candidate does not hold a PEC but uses the power of representation referred to in art. 38, c. 3 bis of the D.P.R. 28 December 2000, n. 445 and ss.mm.ii. in addition to the documentation required by the selection procedure, the delegation to the PEC holder must also be sent. The delegation must be accompanied by valid identity documents of both parties signing the delegation (delegate and delegator).**

The PEC of participation at the selection shall include the following subject: Domanda di partecipazione Bando n. 7 borse di dottorato Tech4You.



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The application for participation in the competition must be submitted using the facsimile attached to this notice signed by the candidate and scanned in PDF format with its annexes. Applicants are also invited to name files with a meaningful name: e.g. application for participation, self-certification degree, V.C., publications, etc..

In addition, a compressed folder (zip file not exceeding 40 megabytes) must be attached, which must contain all the documentation that the candidate intends to submit to the Commission for evaluation.

Please note that certified e-mail does not allow the transmission of attachments that, all together, have a size equal to or greater than 40 megabytes. The candidate who has to send annexes that exceed this limit overall, will have to send with a PEC the application specifying at the same time that the annexes, or part of them, will be sent with one or more subsequent PEC.

It should also be noted that the validity of the transmission of the certified e-mail message is attested respectively by the receipt of acceptance and the receipt of delivery provided by the e-mail operator pursuant to art. 6 of Presidential Decree no. 68 of 11 February 2005.

**- delivered by hand, even by courier, no later than the aforementioned deadline** at the Ufficio Protocollo dell'Università degli Studi Magna Græcia di Catanzaro - ground floor– Edificio Direzionale, Campus universitario, Viale Europa, Loc. Germaneto, Catanzaro, in the following opening hours:

Monday to Friday, from 9.00 to 12.00

Monday and Tuesday from 15.00 to 16.00

The application for participation, accompanied by annexes, must be inserted in a sealed envelope on which must be indicated:

**Sender:** name, surname and address of the candidate;

**Subject:** Domanda di partecipazione Bando n. 7 borse di dottorato Tech4You.

**Destination address:** Al Magnifico Rettore dell'Università degli Studi Magna Græcia di Catanzaro, Ufficio Protocollo - Edificio Direzionale, Campus universitario, Viale Europa, Loc. Germaneto, 88100 Catanzaro.

**AOO:** Area Affari Generali

**The words:** NON APRIRE.

**The envelope delivered by hand, also by courier must include, in addition to the paper documentation, also a computer medium (CD, Pen Drive, etc.)** containing the identical documentation in digital format (the application for participation, as well as all the annexes submitted for evaluation). This digital documentation will allow the conduct of the insolvency process in telematic mode.

**Note that it is compulsory for each candidate to produce, as part of the document package, also the digital version, in addition to paper, of the application and the attached documentation.**



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**It is also mandatory to declare under your own responsibility, the conformity between the application and the paper documents submitted and the application and the documents digitized in the computer media mentioned above (declaration contained in the facsimile of the application).**

Complaints are not allowed for late applications. Applications received by priority mail and non-certified e-mail will not be accepted.

Delivery of the application shall remain at the sole risk of the sender if, for whatever reason, the application does not reach its destination in due time.

**The application must be drawn up in accordance with the fac-simile annexed to this notice (Annex B), of which it forms an integral part, showing all the information that, according to the rules in force, candidates are required to provide.**

**The application must be accompanied by:**

- 1) a copy of a **valid identity document or passport** for foreign applicants;
- 2) the **curriculum vitae et studiorum** (prepared using only the facsimile available at <https://web.unicz.it/it/category/bandi-ateneo>);
- 3) the **declaration of replacement certification relating to the exams taken with the analytical indication of the exams taken during the entire university career (during the three-year period and the two-year/master's degree if it is not a single cycle master's degree), vote, date and not approximated arithmetic average.**  
*Students of the University of Catanzaro can use the model available on the personal page at <https://unicz.esse3.cineca.it/Home.do>; graduates of the University of Catanzaro by accessing their personal page at the aforementioned address, section "Student status", "Go to my booklet" will print the "Booklet" containing the arithmetic average of the exams and the exams taken with relative vote: the printing of the booklet must be signed on each page with the value of compliance with what is present on personal page in ESSE3;*
- 4) any **publications** related to the themes of the PhD, including the **thesis or abstract**;
- 5) any **Masters, grants and research grants** relevant to the PhD themes;
- 6) any other titles relevant to the themes of the PhD;
- 7) any **request for recognition of the foreign qualification and the related documentations** (e.g. declaration of value, Diploma supplement, etc.): **mandatory** for applicants with a qualification obtained abroad (drawn up using only the *facsimile* available at <https://web.unicz.it/it/category/bandi-ateneo>);
- 8) **list of all documents** entered;
- 9) **receipt of payment of the contribution to the selection of the amount of € 50,00**, made by pagoPA;
- 10) **computer support** (CD, Pen Drive, etc.), if the application is hand delivered.

The candidate must provide **by 12:00 A.M. (italian time) of 14.11.2022, penalty exclusion from the competition, to the payment of the "Contribution for selection" of the amount of € 50,00**, through the Pago PA system at the following link <https://web.unicz.it/it/page/iban-computerpayments>, section "For receipts from private individuals, Non Treasury Entities, International Bodies" with one of the following methods:



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**Pay with PagoPA** (online mode): allows you to choose between the payment instruments available: credit or debit card or prepaid on the main circuits. You can make the payment with any credit card, selecting one of the banks that appear in the mask even if the credit card was issued by a bank other than those indicated.

**Press Notice for PagoPA** (Deferred Mode): Print the payment notice and submit it to one of the authorized merchants: This includes tobacco shops in which the Sisal Pay or Lottomatica service is active or one of the credit institutions participating in the PagoPA system. Credit institutions generally allow the payment of the notice also through home banking and at ATMs (ATMs).

The above payment is intended for the Università degli Studi Magna Graecia di Catanzaro – Amministrazione Centrale as a contribution to the selection “Bando n. 7 borse di dottorato Tech4You”; at the following link <https://web.unicz.it/it/page/iban-e-payments-computer> is available a "User Manual" containing instructions on how to pay.

The contribution paid will not be reimbursed in any case.

Please note that the **receipt of payment of the contribution to the selection of the amount of € 50,00 must be attached to the application.**

In the application form, the candidate must indicate his or her personal details, date and place of birth, tax number, nationality, residence and address elected for the purposes of selection.

**By submitting the application, the candidate declares on his own responsibility:**

1. **the projects for which intends to participate and the order of priority;**
2. to be aware that pursuant to art. 1 of the selection notice the order of priority of the projects expressed in the application for participation in the selection will be a binding criterion for the award of the doctoral grant;
3. the citizenship;
4. (*only for foreign citizens*) to have an adequate knowledge of the Italian language;
5. the degree held by the mark obtained, the date and the University at which it was obtained, that is, the academic title obtained at a foreign University, or being a graduate, with the commitment to send it to the University, penalty of forfeiture, no later than 5 days after the award of the title, alternative declaration of achievement of the title;
6. to undertake to attend the PhD programme exclusively and full-time;
7. not to be disabled person or to be disabled person and to have need of aids or of additional times; the handicapped candidates, according to law 5/02/1992, n. 104, will have to ask in relation to the own handicap, the necessary aid, and any need for additional time to be able to take the selection test;
8. **to have read and accept all the clauses of the selection notice and, in particular, to be aware that the interview will take place at the time and date indicated in art. 5 of this notice which constitutes an official call for the test itself, without further notice and that any changes will be made known only by publication on the University's website at <https://web.unicz.it/it/category/bandi-ateneo>;**





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9. be aware that scholarships may not be cumulated with research grants and other scholarships for any title awarded, except those awarded by domestic or foreign institutions useful in supplementing, with stays abroad, training and research activities for scholarship holders;
10. to undertake to notify in a timely manner any change of residence or address for selection;
11. to be aware that the University of Magna Graecia of Catanzaro (P.I. 02157060795 - C.F. 97026980793), based in Viale Europa - 88100 Catanzaro (tel. 0961 3694001- PEC: protocollo@cert.unicz.it), processes the data provided by candidates in accordance with current legislation on the protection of personal data, as best described in the extended information available at the University, which has been viewed on the institutional website <https://web.unicz.it>; the Data Protection Officer (DPO) can be contacted at [dpo@unicz.it](mailto:dpo@unicz.it) ;
12. the conformity between the application and the paper documents submitted and the application and the digitized documentations in the computer medium (CD, Pen Drive, etc.) (if the application is submitted by hand);
13. to comply with all the conditions imposed by the funding body and to undertake to provide at any time, at the request of the MUR, all the documentation deemed necessary by the Ministry itself, in relation to the reporting of the Research and Innovation Programme entitled "Tech4You - Technologies for climate change adaptation and quality of life improvement";
14. to commit to always include references to the aforementioned Research and Innovation Programme in the research products.

**Any other form of application shall be excluded.**

The verification of the validity of the applications and the payment of the contribution of € 50,00 within the deadline will be carried out by the Administration after the end of the call.

**Applications for participation in the selective procedure will not be considered valid for the purposes of the competition and, consequently excluded ex officio, for participation in the selective procedure in case of:**

- a. lack of the requirements for admission (*such verification may also be carried out after the selection*);
- b. without the candidate's signature;
- c. without a photocopy of the identity document;
- d. not dispatched or delivered in the manner provided for in Art. 3;
- e. transmitted by PEC after the expiry date of this notice;
- f. delivered by hand, including by courier, beyond the deadline of this notice;
- g. applications sent by a PEC not in the name of the candidate or not accompanied by a delegation given to the JEP holder together with the valid identity documents of both parties signing the delegation (delegate and delegatee);
- h. sent by institutional PEC;
- i. sent by ordinary e-mail;
- j. candidates who have not paid the "Contribution selection participation" of € 50,00 by the deadline of the call.



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The exclusion from the selection for these reasons will be notified to the interested parties exclusively by PEC or simple e-mail in case of failure to communicate a PEC address.

Candidates must demonstrate possession of the certificates issued by the Public Administration by means of a declaration of certification (self-certification) pursuant to art. 46 of D.P.R. 445/2000 and ss.mm.ii..

**All self-certifications must be signed and dated.** This mode can also be used by:

- Community citizens;
- citizens of States not belonging to the European Union, residing regularly in Italy, limited to states, personal qualities and facts certifiable or certifiable by Italian public entities (e.g. degree obtained at an Italian University).

Non-EU applicants who have followed an academic path abroad must attach the original certificates and their translations (see art. 2 above). These candidates will be admitted to the selection with reservation and will be excluded from the PhD course if, following verification, it is found that the qualification does not comply with the requirements of this call and therefore does not allow enrollment in the PhD.

Candidates must attach a specific declaration in lieu of the document of recognition, made pursuant to art. 47 D.P.R. 445/2000 and s.m.i, which attest to the original of the publications submitted. In addition, candidates must declare under their own responsibility pursuant to and for the purposes of D.P.R. No. 445/2000 that the data and information included in the curriculum vitae et studiorum correspond to the truth.

It is necessary to specify, for all the qualifications and for all the information included in the curriculum vitae et studiorum, any data necessary for the verification by the Administration (e.g. start-end date, institution/company, duration of the stock exchange/contract, vote, position, etc.).

**All candidates are admitted to the selection subject to verification of the requirements of the call.**

For requirements related to the organization of work and, in accordance with the principles of timeliness, effectiveness, efficiency and cost-effectiveness of administrative action, this Administration, for the purposes of any exclusion for lack of the eligibility requirements referred to in art.2 above, reserves the right to check only the requests for participation of those who have supported and passed the selective tests.

The University may, at any time of the procedure, also after the start of the doctoral courses, carry out checks on the veracity of the declarations produced pursuant to DPR n. 445/2000 and ss.mm.ii..

If the reasons for the exclusion are ascertained after the beginning of the courses, the University may at any time, by a reasoned decision of the Rector, order the exclusion of candidates from the selection procedure or from the doctoral course, and the forfeiture of any benefits obtained, without prejudice to the criminal liability in the event of a finding of falsehood in acts and false statements pursuant to art. 76 DPR 445/2000.

#### **Art. 4 - Judging Committees**

The Judging Committee is appointed with an ordinance issued by the Dean upon consultation with the Head of the Research and Innovation Programme entitled "Tech4You - Technologies for climate change adaptation and quality of life improvement", the Commission in charge of the comparative evaluation of





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candidates. The commission will consist of 5 members including the Coordinator of the Doctoral School with the functions of President.

The composition of each commission will be published, after the call for applications deadline, on the website of the University at <https://web.unicz.it/it/category/bandi-ateneo>.

The Commission must complete the insolvency operations within 15 days from the date of the rector's decree of appointment, except in exceptional cases and in any case authorized by the Rector.

### Art. 5 – Selection Process

Admission to the PhD programme is based on a selection procedure aimed at ascertaining the candidate's preparation and aptitude for scientific research.

The selection procedure consists of the evaluation of qualifications and an interview that will focus on the discussion of qualifications, previous scientific experience and knowledge of English language.

For the evaluation of the titles 50 points are reserved as follows:

- a maximum of 35 points for the Curriculum vitae et studiorum (CV);

The candidates will be evaluated on the basis of the **entire university career**, that is, on the basis of the arithmetic average of the marks obtained during the three-year degree together with the votes of the two-year master's degree. For this purpose it is necessary to self-certify the Master's Degree (or equivalent) with the analytical indication of the exams taken, the date and the vote and declare the relative arithmetic average; in the case of a non single cycle degree, it is necessary to self-certify the exams taken during the three-year period and during the two-year specialist/ master's degree course, date and vote and declare the relative arithmetic average;

- a maximum of 12 points for any publications relevant to the PhD themes, including the thesis;
- a maximum of 3 points for any Masters, scholarships and research grants relevant to the PhD themes.

Typewritten or printing works not yet accepted by scientific journals will not be considered.

**For the admission to the interview the candidate is considered eligible if is reached a vote of not less than 30/50.**

The interview is awarded a maximum score of 50 points.

The minimum threshold for passing the interview is 30/50.

The knowledge of English language, will be ascertained during the interview.

The candidate may decide whether to take the interview in English or Italian.

**The results of the evaluation of qualifications** will be published by the Selection Boards through publication on the University's website at <https://web.unicz.it/it/category/bandi-ateneo> by **28.11.2022**.

**The publication of the scores reported in the evaluation of the titles constitutes, for those who have obtained a vote of at least 30/50, convocation for the interview without further notice and/or communications.**

**The interview will take place electronically** through access to the virtual classroom **at the following link [meet.google.com/rnc-tvay-fuz](https://meet.google.com/rnc-tvay-fuz) on 30.11.2022, at 10:00 a.m. (Italian time).**

If the date and time of the interview changes, no personal communication will be given to the candidates. Applicants are therefore responsible for checking any updates on the University's website at <https://web.unicz.it/it/category/bandi-ateneo>



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**These notices will have the effect of notifying all applicants.**

Such communications shall be deemed to constitute full notification. Candidates admitted following the formal verification of applications pursuant to art.3 above who have not received exclusion notice and who have obtained a score of at least 30/50, following the evaluation of the titles, are required to connect electronically on the day and time indicated above. The timetable may be subject to increasing variations.

**To take the test, candidates must present a valid identification document.**

The interviews in telematic mode will be carried out in public session through the Meet Gmail platform. The Meet Gmail platform allows the public access to the virtual classroom where the session takes place. In any case, the interviews must be publicised.

*Applicants are required to connect on the day and time that will be published in the aforementioned notice for the conduct of the interview on the MeetGmail platform. To this end, the Commission will, on the date and time set, invite applicants by e-mail to connect to the link for the conduct of the interview. By clicking on the link the name of the candidate will appear on the screen of the Commission; at this point the Commission will be able to see and hear the candidate. The commission will ask to identify the student by asking to bring the valid ID closer to the camera. The Commission can silence the microphone of all candidates, so that the other candidates can listen (both the Commission and the candidate questioned), making the test de facto public. At the end of the interview, the Commission will silence the microphone of the interviewed candidate and ask the next candidate to reactivate his microphone (the microphone cannot be reactivated directly by the Commission).*

*The candidate must be available to the account indicated in the application form on the day and time set for the interview. The Commission may agree with the applicant on a specific time for the start of the interview. The Commission may ask the candidate, before starting the interview, to frame the room and frame the table, on which there must be nothing outside the computer (it is not possible to keep books and notes, unless authorized by the Commission).*

**Excluded from the competition are candidates who have not indicated a valid e-mail address for the electronic link, who are unavailable on the day or time established, which do not provide a valid identity document or where the link of the candidate does not work.**

The University of Magna Græcia Studies of Catanzaro declines any responsibility in the event that technical problems prevent the smooth conduct of the interview. Please note that the University of Magna Græcia Studies of Catanzaro does not provide technical assistance to candidates and that it remains the responsibility of the participants to verify both the functionality of their telematic link and that the device used is suitable and functional to the connection.

The committee shall draw up minutes for each meeting. At the end of each interview session, which will be held in public, the Commission shall draw up a list of the candidates examined, indicating the votes recorded by each candidate in the interview. The Selection Board will inform the candidates who have taken the interview of the score assigned electronically.

The results of the colloquium will be published at <https://web.unicz.it/it/category/bandi-ateneo> at a later date.



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**Any changes and updates to the call, including any changes to the dates and methods of conducting the interview will be disclosed exclusively through publication on the University website at <https://web.unicz.it/it/category/bandi-ateneo>.**

**Candidates are responsible for checking any updates on the University's website, even close to the scheduled dates for the interviews.**

At the end, the Commission forms, in descending order, the general ranking of merit by adding the votes attributed to each candidate in the evaluation of qualifications and the score assigned to the interview.

The general ranking lists will be published on the University's website at <https://web.unicz.it/it/category/bandi-ateneo>.

The President of the Selection Board promptly sends the minutes of the selection operations to the Rector who, normally within 15 days, from the date of receipt of the above-mentioned minutes, it shall, by its own decree, approve the acts of the selection or postpone them for any regularization. **From the day following the date of publication of the Rector's Decree approving the selection documents on the website <https://web.unicz.it/it/category/bandi-ateneo>, they run, under penalty of forfeiture, the deadlines for the submission of the application for registration pursuant to art. 7.**

#### **Art. 6 – Rankings**

The Commission forms the general ranking of merit on the basis of the scores obtained by the candidates in the assessment of qualifications and in the interview.

The award of the scholarship will be made by decree of the Rector, according to the general ranking of merit, on the basis of the priority order of the projects expressed by the winning candidates and within the limits of the availability of the scholarships fixed by the call.

**The actual enrolment and award of PhD scholarships are conditional on the transfer from the competent ministry of financial resources related to the Research and Innovation Programme entitled "Tech4You - Technologies for climate change adaption and quality of life improvement" for the realization of the Ecosystem of innovation called "Tech4You - Technologies for climate change adaption and quality of life improvement" and the evaluation of the academic bodies of the University regarding the adequate availability of the same financial resources.**

In the event that the results of the admission tests determine a situation of ex aequo will be declared the winner of the female candidate, pursuant to the D.I. of 7 December 2021, published in the G.U. n. 309 of 30 December 2021, containing the "Adozione delle linee guida volte a favorire la pari opportunità di genere e generazionali, nonché l'inclusione lavorativa delle persone con disabilità nei contratti pubblici finanziati con le risorse del PNRR e del PNC";

In the event of a situation of ex aequo and gender equality, the assessment of the economic situation determined pursuant to D.P.C. 9/04/2001 prevails.

To this end, **candidates in an ex aequo position** are required to submit, online, the request for the ISEE Model the day following the date of publication of the merit ranking; In any case, candidates in an ex aequo position **must transmit the ISEE model to the University Administration** (at the address [affarigenerali@cert.unicz.it](mailto:affarigenerali@cert.unicz.it) or [affarigenerali1@unicz.it](mailto:affarigenerali1@unicz.it)) **no later than 06.12.2022** in order to allow the award of PNRR scholarships by the ministerial deadline; to this end, **candidates admitted to the interview are invited to check in advance the documentation and the time necessary for the issuance of the ISEE.**



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**In case of further parity**, the youngest candidate of age prevails pursuant to art. 3, c. 7 of law 127/1997, as supplemented by art. 2 of Law 191/1998.

**The expected start date of activities is indicated on January 2, 2023, without prejudice to the provisions of art.1 c.2 of this notice.**

#### **Art. 7 – Required action for successful candidates**

The winning candidates **must complete the application form for the first year** using only the facsimile available at <https://web.unicz.it/it/category/bandi-ateneo>.

**The first year's application must be accompanied by:**

1. photocopy of a valid identification document;
2. photocopy of the tax code;
3. Presumptive statement on the total gross personal income available on the University's website <https://web.unicz.it/it/category/bandi-ateneo> for the purposes of scholarship.

**The successful candidates, under penalty of forfeiture, must send by PEC or by hand, even by courier, the application for registration accompanied by the aforementioned annexes no later than 2 (two) days starting from the day following the date of publication of the Rector's Decree approving the acts of selection on the website <https://web.unicz.it/it/category/bandi-ateneo> in one of the following ways:**

- **sent by PEC** to the certified e-mail address [protocollo@cert.unicz.it](mailto:protocollo@cert.unicz.it).

The PEC must include in the subject: Iscrizione I anno dottorato di ricerca in \_\_\_\_\_ (specify the PhD course) Bando borse Tech4You.

**Only applicants of foreign nationality residing abroad can send, within the same period, the application for registration by ordinary e-mail to [affarigenerali@cert.unicz.it](mailto:affarigenerali@cert.unicz.it)**, configured to accept ordinary emails.

- **delivered by hand, even by courier, no later than the aforementioned deadline** at the Ufficio Protocollo dell'Università degli Studi Magna Græcia di Catanzaro located - ground floor – Ufficio Direzionale, Campus Unviersitario, Viale Europa, Loc. Germaneto, 88100 Catanzaro, in the following opening hours:

from Monday to Friday, from 9.00 to 12.00

Monday and Tuesday from 15.00 to 16.00

No complaints are allowed for late applications. Registration requests received by priority mail are not allowed.

The address of the application for registration remains at the sole risk of the sender if, for any reason, the application does not reach its destination in due time.

If the expiry date is a public holiday, it shall be extended to the first working day.

On the day following the expiry of the deadline for the transmission of the registration application, the winners, who have sent the application in good time, will be invited by PEC (or, in case of failure to



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communicate a PEC address, by email) to link to the page Esse3 <https://unicz.esse3.cineca.it/Home.do> in order to proceed to the payment of the first installment of registration fees and frequency of € 526.00 (euro cinquecentoventisei/00) including "Tuition fee and PhD course attendance I installment - I year of € 360.00, Fee for the right to the PhD study of € 150.00 (subject to balance) and virtual stamp of € 16.00.

Payment must be **made by 11.59 P.M. (italian time) on the day following the transmission of the request by the University.**

The procedure involves an initial registration at the end of which it is recommended to print the reminder, containing username and password, access data to the web portal that will be, however, also sent by e-mail from the e-mail address "helpesse3@unicz.it". N.B. It is necessary, in order to retrieve your credentials in the Esse3 computer system and for any communications, to indicate a valid e-mail address.

Applicants already registered must choose the entry 'Login' (using the username and password in possession of the student if student of the University of Catanzaro).

**The receipt of the payment, made by PagoPA payment, of the first instalment of the registration fees and frequency must be promptly transmitted by PEC or ordinary mail with the methods described above.**

Those who have not regularised their registration within the above terms will be considered waivers.

The University Administration assumes no responsibility for the case of dispersion of communications depending on incorrect indications of residence and delivery by the aspirant, or by failure or late notification of the change thereof, nor for any postal or telegraphic errors not attributable to the Administration itself.

It will be possible to make changes in the ranking only after the evaluation of the academic bodies of the University in relation to the provisions of art.1, c.2 of this call, after consulting the Head of the Research and Innovation Program "Tech4You - Technologies for climate change adaption and quality of life improvement" regarding the project needs also in terms of timing of the aforementioned Research and Innovation Program.

### **Art. 8 – Scholarships**

The scholarships are assigned by Rector's Decree according to the order defined in the general ranking of merit within the limits and with the modalities referred to in art. 6.

The yearly amount of the scholarship, before taxes, is of € 16,243.00; this is paid in monthly deferred instalments. For the use of the scholarship the limit of total gross annual personal income is set at € 15,000.00. Income refers to the year of the highest grant disbursement.

Income of property origin and emoluments of any other nature, whether recurrent or occasional, shall be included in the determination of that income; personal income from work with the exclusion of the amount of the grant or any income support benefits paid on the basis of the grant (maternity allowance).

This declaration is subject to the verification of the veracity of the content by the University Administration, also in collaboration with the Tax Police Bodies.

There are no places without a scholarship: therefore, the doctoral course is automatically concluded in case of withdrawal of the scholarship, in case of exceeding the income limit or in case of any incompatibility in order to qualify for the doctoral grant.



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The PhD student is required to return the instalments of the annual grant already received in progress if it exceeds the aforementioned income limit, in the event that you give up the Doctoral Course and in the case of any incompatibility occurred in order to qualify for the doctoral grant.

The scholarships have an annual duration and are renewed on condition that the PhD student has completed the program of the activities planned for the previous year according to the procedures provided for in art. 12 of the University Regulations on PhD. It remains the obligation to award the scholarship after passing the examination.

The scholarship cannot be combined with other scholarships for any title awarded, except those granted by national or foreign institutions useful to complement, with stays abroad, the training or research activities of PhD students.

The scholarship of the PhD is subject to the payment of the INPS social security contributions under separate management pursuant to Article 2, paragraph 26, of Law August 8, 1995, n. 335, and subsequent amendments, two thirds to be borne by the administration and one third by the grant holder. PhD students enjoy the protection and related rights.

Each PhD student is assured, within the existing financial resources in the budget of the University "Magna Graecia" of Catanzaro, a budget, determined annually by the Board of Directors, for research activities not less than 10% of the scholarship.

If the PhD student is not evaluated positively for the renewal of the scholarship, or renounces it, the amount not used remains available to the University, for the same purposes.

Those who have already received a scholarship for a doctoral course even for a single year, or a fraction of it, cannot benefit from it a second time.

The provisions of Article 4 of Law No. 476 of 13 August 1984 shall apply to the grant for the attendance of doctoral courses in tax matters.

#### **Art. 9 – Rights and duties of PhD students**

Admission to the doctorate involves an exclusive and full-time commitment.

The PhD students, as an integral part of the training project, can carry out, after approval of the College of Teachers and without this entailing any increase in the scholarship, tutoring activities, students of the degree and master's degree programmes and, in any case, up to a maximum of forty hours in each academic year, supplementary teaching activities. For the activities referred to in this paragraph, doctoral students are paid the allowances referred to in art.1, paragraph 1, letter b) of DL 105/2003 converted into law n.170/2003.

Civil servants admitted to doctoral courses shall enjoy, for the normal duration of the course, leave provided for in the collective agreement or, for employees under public law, special leave for study purposes, in accordance with the requirements of the administration, pursuant to Article 2 of Law No. 476 of 13 August 1984, as amended, **without salary** only if they are enrolled for the first time in a doctoral course, regardless of the disciplinary area.

The interventions foreseen by D.L. n. 68/2012 are extended to PhD students, with the modalities regulated therein.





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The provisions on maternity protection set out in the decree of the Minister of Labour and Social Security of 12 July 2007, published in the Gazzetta Ufficiale No. 247 of 23 October 2007, apply to doctoral students. Students enrolled in the PhD program can carry out periods of training at Italian or foreign universities or research institutes, following the PhD Program Board's prior approval.

Due to the origin of the funding of PhD grants, with partial exception of art. 12, c.5, of the University's PhD Regulations, **PhD students must carry out their PhD activities at the University of Catanzaro or at other universities or research institutes in Italy, unless a period of research abroad is expressly imposed by the funding agency.**

No supplement is provided for any periods abroad, unless such periods are not imposed by the funding body.

**The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.**

**The PhD students are required to provide all the documentation that will be required by the university offices for the purpose of reporting the intervention**, including, by way of example, monthly timesheet, detailed report on the activities carried out during the reference period and any additional documentation deemed necessary by the financing institution.

At the end of each year, PhD students present a report of their research to the PhD College. This report is accompanied by an explanatory report by the Lecturer and is discussed by the candidate with the PhD College.

It is expected the forfeiture from the status of Ph.D. student, with a rectoral decision, following a reasoned decision of the College of the PhD, after consulting the interested party, in the case of:

- a) negative opinion of the Doctoral College at the end of the year of attendance;
- b) unjustified and prolonged absences;
- c) conduct contrary to the rules of incompatibility.

In the event of suspension lasting more than thirty days, or exclusion from the course, no scholarship may be awarded.

It is the sole responsibility of the PhD College of Teachers to authorize the PhD student to work. The College of Teachers, upon request for authorization from the PhD student, accompanied by a statement from the supervisor - certifying the compatibility of the work activities with the successful conduct of the training activities - may authorize, by means of a reasoned resolution, PhD students with or without a scholarship to carry out paid activities, verifying their compatibility with the profitable full-time development of training, teaching and research activities relating to the doctoral course. Compatibility is to be understood in the sense that the work activity is similar to the themes of the doctorate and is in any case compatible with the respect of the commitment required for the training activities of the course itself. In particular, it remains firm that for doctoral candidates with scholarship, the paid activities must be limited to those in any case related to the acquisition of skills related to the training field of the doctorate; for PhD students without scholarship, in any case, any incompatibility arising from their work must be assessed in concrete terms.

Any authorization to work for a PhD student who is a public or private employee, for an indefinite or fixed period, may not be granted for more than 24 months for the entire doctoral course.



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The PhD student must annually ask the College of teachers for permission to carry out the work and transmit the decision of the College to the competent Office. In case of authorization, the PhD student can carry out, at the same time, the work and the doctoral training.

In the event of refusal of authorization, the PhD student will have to choose whether to continue to attend the doctorate or give up for the benefit of work.

The tuition fees and attendance at the PhD courses are determined for A.Y. 2022/23, in the amount of €1.124,45 to be paid in three installments according to the following table, and the Tax for the right to study determined by the Regione Calabria:

Category	Income	Annual amount university tax	I installment	II installment	III installment	Stamp duty paid virtual system	Tax for the right to study PhD programme
PhD student with grant	N.A.	€ 1.124,45	€ 360,00 at the time of enrolment	382,23 by 28.02.2023	382,22 by 30.06.2023	€ 16,00 at the time of enrolment	To be paid in the amount established by Regione Calabria,

The fees for registration and attendance at PhD courses for subsequent academic years shall be determined according to the above schedule.

Registrations shall be made by the expected date of 20 December 2022.

In the field of medical doctorates, PhD students can carry out clinical research within the chosen research project.

The PhD student is obliged to respect, as far as compatible with the precepts expressed by the D.P.R. 16.04.2013, n. 62 bearing the "Code of conduct of civil servants, pursuant to art. 54 of Legislative Decree 165/2001" and the "Code of Conduct of the Magna Græcia University, issued with D.R. n. 370/2016". It is expected the forfeiture of the PhD course in case the PhD student fails to comply with the provisions of the aforementioned Codes of Conduct.

The above-mentioned Codes of Conduct are available on the University's website at <http://web.unicz.it/it/page/codice-disciplinarye-codice-di-condotta>.

#### Art. 10 – Attainment of the title

The title of PhD., abbreviated in Italian with "Dott. Ric." (PhD) is awarded by the Rector following the public discussion of a thesis that contributes to the advancement of knowledge and methodologies in the chosen field of research.

The procedures for obtaining the title are governed by Article 10 of the University Regulations in PhD topics mentioned in the introduction.

#### Art. 11 – Treatment of personal data

The personal data provided by the candidates will be collected and processed by the University of Magna Græcia Studies of Catanzaro (P.I. 02157060795 - C.F. 97026980793), based in Viale Europa - 88100 Catanzaro (Phone: 0961 3694001- PEC: protocollo@cert.unicz.it) for the purposes of managing this



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selection in accordance with current legislation on the protection of personal data (EU Regulation 2016/679 and d.lgs 30 June 2003, n. 196 as best described in the extended information available on the institutional site of the University <https://web.unicz.it>; the data protection officer (DPO) can be contacted at [dpo@unicz.it](mailto:dpo@unicz.it).

#### **Art. 12 – responsible for the procedure**

Pursuant to art. 5 of the law 7 August 1990, n. 241, the Dr. Eleonora Consoli is responsible for the procedure, with exclusion of the selective phases, of the selection for the allocation of the n. 7 scholarships of PhD Tech4you.

The competent Organizational Unit is the Area Affari generali - Università Magna Græcia di Catanzaro - Campus Universitario - V.le Europa, Loc. Germaneto, Catanzaro, tel. + 39 0961/3696075- 0961/3696083 - [affarigenerali1@unicz.it](mailto:affarigenerali1@unicz.it), [consoli@unicz.it](mailto:consoli@unicz.it); Ms Viviana Borelli takes care of this procedure - tel. + 39 0961/3696075, e-mail [affarigenerali1@unicz.it](mailto:affarigenerali1@unicz.it).

#### **Art. 13 – Norms of reference**

For anything not expressly provided for in this call, the laws and regulations on PhD apply.

#### **Art. 14 – Publicity**

This call, drawn up in Italian and English, will be published on the website of the University of Studies Magna Græcia of Catanzaro in the sections <https://web.unicz.it/it/category/bandi-ateneo> and <https://web.unicz.it/it/gory/dottorati>-Research on the European Euraxess site and the MUR site.

**In case of litigation, the text of reference will be exclusively the original text in Italian.**

Catanzaro,

**IL RETTORE**

Prof. Giovambattista De Sarro



## ANNEX A- ANALYTICAL SHEETS OF RESEARCH PROJECTS

<b>PROJECT COD. 1/TECH</b>	
<b>PhD in</b>	Life sciences
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Stefano Alcaro
<b>E-mail Coordinator</b>	alcaro@unicz.it
<b>Training objectives of the course</b>	The aim of the PhD Course in Life Sciences is to propose a path of Higher Doctoral Education in Life Sciences to a large group of graduates belonging to different master's degree classes ranging from Pharmacy and Industrial Pharmacy, Chemical Sciences, Biology and Industrial Biotechnology, Physics, Engineering, Medicine and Surgery, Dentistry and dental prostheses. The aim is to train PhD students of all curricula to do research at a high scientific level, favoring interdisciplinarity, the opportunities that arise from interaction with companies through specific projects (PON, POR and PNRR) complete the application experiences of students and periods of international internships at qualified public or private bodies. The course is also very suitable for foreign students, who find in the laboratories of the research groups of the members of the Faculty College excellent opportunities for integration and scientific cooperation. In addition, the PhD in Life Sciences, thanks to the collaboration of the Magna Graecia University with local research bodies, such as the CRISEA center in Condoleo di Belcastro and the university spinoff Net4Science, born in 2018 by professors and former-students of this course, offers its PhD students unique professional opportunities in the Calabrian territory also projected to technology transfer.
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech 4 You
<b>Title of the project</b>	<b>Identification and validation of new compounds of natural origin in pain therapy</b>
<b>Description</b>	Nociceptive and nociplastic pain are quite frequent pathologies that reduce the quality of life of affected people and have a significant impact on the national health system. The research activities aim to identify and test compounds of natural origin for the treatment of pain through the use of eco-sustainable technologies. In particular, the potential therapeutic activities of natural lipids in humans will be evaluated.
<b>Professor Proponent</b>	Prof.ssa Rita Citraro
<b>Curriculum of affiliation</b>	Basic life sciences
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.
<b>Period abroad and period in the company</b>	The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency. The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.

## PROJECT COD. 2/TECH



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<b>PhD in</b>	Digital Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Daniele Torella
<b>E-mail Coordinator</b>	dtorella@unicz.it
<b>Training objectives of the course</b>	<p>The PhD in "Digital Medicine" is a multidisciplinary PhD aimed at the theoretical-practical learning of the most advanced technologies in the field of bio-medical, bio-engineering, bio-informatics and artificial intelligence, for the application development of integrated research programmes in the fields of medical surgery, regenerative medicine and the planning and conduct of experimental clinical studies through the implementation of digital medicine and telemedicine. For its characteristics, the Doctoral Course has as its aim the high training of doctors, engineers in the field of health, biologists, physicists, bio-informatics, and bio-statistics, able to transfer and integrate technological know-how in the field of medical applications. At the same time, to learn the use of advanced technologies for new diagnostic-therapeutic strategies and to improve the quality of life of patients. The main objective of the PhD is to prepare PhD students to develop scientific research projects that address a complex problem that can be at different scales, from the molecular and cellular level to living organisms to biomedical systems. They investigate original methods, devices and systems with different purposes: to increase knowledge, to propose innovative methods for diagnosis and therapy, as well as to improve health and daily life facilities and services. The Doctorate aims to develop engineering skills of high level problem solving in biomedical, health and life sciences, within research groups or in private/public industrial or clinical contexts, through a strong interdisciplinary training that combines engineering with medical/biological know-how. At the end of the PhD, candidates must be able to carry out innovative projects and research development in the field of digital medicine and bioengineering and advanced medical therapies, proposing new methodological and technical solutions and appropriately assessing the technological impact in healthcare, life sciences and biomedical industry. The Doctoral Course aims, therefore, the post-graduate training of new highly specialized professional figures who, for their interdisciplinary skills, may have new and more qualified job opportunities in universities, in public or private research institutes, in hospitals or in the pharmaceutical and biomedical industry</p>
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech 4 You
<b>Title of the project</b>	<b>Preparation and characterization of cosmetic products and cosmeceuticals containing bioactive substances of recovery or synthesis for human well-being</b>
<b>Description</b>	<p>In recent decades many extracts and compounds of natural origin, for example from food waste, have attracted increasing interest in the cosmetic and cosmeceutical field for their multiple properties, including antioxidant, anti-inflammatory, anti-reddening, etc. While natural substances are abundantly available in the territory and characterized by peculiar chemical structures and specific biological activities, many of them have chemical-Physical properties that compromise their handling and use, such as inappropriate solubility, high photosensitivity or rapid degradation. For this reason chemical changes and technological-formulation strategies must be implemented in order to exploit the benefits of their use. On the basis of this, the required professional figure must, during the training, identify and extract active substances from natural sources</p>



	such as food waste, synthesize from scratch and/or chemically modify chemicals with biological activity, as well as implementing innovative technological-formulation strategies for the creation and characterization of cosmetic and cosmeceutical products for human well-being containing extracted or synthesized substances. In addition, the PhD student will have to characterize from a chemical-physical means cosmetic and cosmeceutical products prepared and containing the active substances of extraction or new synthesis to ensure compliance with the quality standards required by the national and European market, as well as testing them in vitro, The European Commission's Green Paper on Health Protection and Health at Work on Health and Safety at Work.
<b>Professor Proponent</b>	Prof.ssa Donatella Paolino
<b>Curriculum of affiliation</b>	Innovative technologies for digital medicine and advanced therapies
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims at creating and promoting innovation and sustainability for a reference area/territory
<b>Period abroad and period in the company</b>	<p>The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency.</p> <p>The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.</p>
<b>PROJECT COD. 3/TECH</b>	
<b>PhD in</b>	Molecular Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Giovanni Cuda
<b>E-mail Coordinator</b>	cuda@unicz.it
<b>Training objectives of the course</b>	The objective of the doctorate is the formation of professional figures with a solid interdisciplinary competence in medical research, autonomy in the planning, execution and interpretation of experiments, Formulation of research projects and preparation of scientific articles. The doctoral program will provide candidates with scientific and technological support for the study and resolution of medical issues through the acquisition of a robust background in the basic disciplines of biomedical research. Strong emphasis will be placed in particular on molecular and cellular approaches to fundamental problems in the research areas covered by the participating departments. The multidisciplinary training that the PhD students will undergo during the course of study, will allow them to develop research projects whose results can contribute to a better understanding of the molecular basis of diseases, through programs that are at the interface between the basic sciences and clinical medicine. The multidisciplinary nature of the program promotes, in fact, an ideal collaborative environment for the training of PhD students, favoring a wide interaction between different skills, a characteristic element of the courses of study of the Magna Graecia University of Catanzaro.
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech 4 You
<b>Title of the project</b>	<b>“Generation and validation of omic panels to evaluate the effects of</b>





<b>Description</b>	<b>nutraceuticals in chronic diseases”</b> Many chronic diseases, such as cancer, type 2 diabetes and cardiovascular disease, are associated with poor eating habits or exposure to dangerous substances. Interest in nutraceuticals that could prevent and/or cure chronic diseases has increased, and people are increasingly paying attention to the quality of the foods and cosmetics they use. The aim of this project is to test new "omic" panels to evaluate the effectiveness of nutraceuticals and dermocosmetics on human health and well-being, with particular attention to cancer. The genomics technology platform available in the laboratories of the University Magna Grecia of Catanzaro will be used to achieve the main objectives of the project. A genomic and transcriptomic panel aimed at molecular biomarkers will be developed to monitor the effects of food supplements and dermocosmetics on health and well-being. These panels will provide a valuable resource that could enable the following: (a) identification, with great accuracy and sensitivity, changes in plasma levels of proteins and metabolites as a result of nutraceutical intake or treatment with dermocosmetics; (b) quantification of the effects of bioactive plant compounds, milk or derivatives, on human health by gene expression.
<b>Professor Proponent</b>	Prof. Giuseppe Viglietto
<b>Curriculum of affiliation</b>	Experimental Biotechnology in Medicine
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.
<b>Period abroad and period in the company</b>	The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency. The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.

<b>PROJECT COD. 4/TECH</b>	
<b>PhD in</b>	Translational Research and Innovative Technologies Applied to Nutrition and Predictive and Precision Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Arturo Pujia
<b>E-mail Coordinator</b>	Pujia@unicz.it
<b>Training objectives of the course</b>	The training objectives will be oriented towards making the link between basic research and medicine even closer, shortening the time needed to bring the results of research into practice, making full use of the hypotheses suggested by science. It will give ample space to laboratory research (benchside), to the application of the results of the research "to the patient's bed" (bedside) and to the dialogue with the community (community) that aims to combine skills, innovative technologies and infrastructures to train researchers capable of planning research activities aimed at improving key aspects of medicine, such as prevention, diagnosis and therapy, with the aim of studying and proposing solutions that improve prognoses, prevention, screening and treatment of the patient and to improve, on a large scale, the health of the population and public



	<p>health. Particular attention will also be paid to training in the research area of increasingly indicative biological models for predictive parameters and biomarkers, Foreseeing the retrospective evaluation and continuous refinement of the preclinical model through the critical review and the correct and considered use of the health result. Therefore, the PhD course will be aimed at training figures of PhD students who have a complete understanding of translational, predictive and precision medicine with application in the different specialties of medical and surgical area, and that they are able to use the most modern engineering, information technology, bioinformatics and nutrition technologies, in order to aim at a scientific activity of excellence. In order to facilitate the transition from "curing disease" to "maintaining health" a specific focus will be on nutraceuticals, functional foods and information technologies (e.g. high-performance computing, data mining and artificial intelligence) It is necessary to organize and analyze big data generated in the healthcare sector, in order to build predictive algorithms. The acquisition of skills for a "precision assessment" will be promoted to allow the planning of studies aimed at verifying accurately risk factors and susceptibility to physiological changes, that predispose to the development or maintenance of a certain disorder. It is also intended to stimulate an increasing attention to the global understanding and consideration of the individual, which will allow young participants to acquire the ability to cope, so that they can face the current challenges of sustainability of health systems, carrying out clinical, preclinical and/or translational research projects in the fields of medical, surgical, public health and information sciences. There will also be in-depth studies on activities in the field of basic research management, epidemiological and experimental, with a specific focus on innovative study designs (e.g. umbrella trial and basketball trial) advanced public health and health data analysis strategies, knowledge management of European and international research systems, exploitation and dissemination of results, open access to research data and products, the fundamental principles of ethics, gender equality and integrity. Finally, attention will be paid to the exploitation of research results, technology transfer and the methodologies governing the protection of industrial property through patenting.</p>
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech 4 You
<b>Title of the project</b>	<b>FUTOS "Functional tomato sauce rich in lycopene for the prevention of osteoporosis in post-menopausal women"</b>
<b>Description</b>	Proper nutritional status is essential for healthy aging and functional foods can help maintain good bone health. The activities aim to develop and test a functional food, starting from a prototype already patented, for the treatment of human diseases through the use of eco-sustainable technologies and agronomic methods. In particular, it will be tested a tomato sauce rich in lycopene, obtained with a traditional agronomic technique called "ripening", to prevent osteoporosis and reduce the associated complications in post-menopausal women.
<b>Professor Proponent</b>	Prof.ssa Tiziana Montalcini
<b>Curriculum of affiliation</b>	Innovative Technologies, Nutraceuticals and Functional Foods
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.
<b>Period abroad and period in the</b>	The PhD students must carry out the activities of the PhD at the University of



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<b>company</b>	<p>Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency.</p> <p>The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.</p>
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<b>PROJECT COD. 5/TECH</b>	
<b>PhD in</b>	Molecular Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Giovanni Cuda
<b>E-mail Coordinator</b>	cuda@unicz.it
<b>Training objectives of the course</b>	<p>The objective of the doctorate is the formation of professional figures with a solid interdisciplinary competence in medical research, autonomy in the planning, execution and interpretation of experiments, Formulation of research projects and preparation of scientific articles. The doctoral program will provide candidates with scientific and technological support for the study and resolution of medical issues through the acquisition of a robust background in the basic disciplines of biomedical research. Strong emphasis will be placed in particular on molecular and cellular approaches to fundamental problems in the research areas covered by the participating departments. The multidisciplinary training that the PhD students will undergo during the course of study, will allow them to develop research projects whose results can contribute to a better understanding of the molecular basis of diseases, through programs that are at the interface between the basic sciences and clinical medicine. The multidisciplinary nature of the program promotes, in fact, an ideal collaborative environment for the training of PhD students, favoring a wide interaction between different skills, a characteristic element of the courses of study of the Magna Graecia University of Catanzaro.</p>
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech 4 You
<b>Title of the project</b>	<b>Clinical-experimental generation and validation of multiomic panels to monitor the efficacy of nutraceuticals and dermocosmeceuticals.</b>
<b>Description</b>	<p>Testing and validation of new omic panels to evaluate the efficacy of nutraceuticals and dermocosmetics on human health and well-being. The technologies available at the technological platforms of genomics, proteomics and metabolomics present in the laboratories of the University Magna Graecia of Catanzaro will be used to: a) the development and validation of omic panels capable of defining with great variations in the accuracy and sensitivity of plasma levels of proteins and metabolites following nutraceutical intake or treatment with dermocosmetics; b) the identification of molecular markers allowing a quantitative definition of the effects of these active substances on human health.</p>
<b>Professor Proponent</b>	Prof. Camillo Palmieri
<b>Curriculum of affiliation</b>	Experimental Biotechnology in Medicine
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.



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<b>Period abroad and period in the company</b>	<p>The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency.</p> <p>The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.</p>
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<b>PROJECT COD. 6/TECH</b>	
<b>PhD in</b>	Digital Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Daniele Torella
<b>E-mail Coordinator</b>	dtorella@unicz.it
<b>Training objectives of the course</b>	<p>The PhD in "Digital Medicine" is a multidisciplinary PhD aimed at the theoretical-practical learning of the most advanced technologies in the field of bio-medical, bio-engineering, bio-informatics and artificial intelligence, for the application development of integrated research programmes in the fields of medical surgery, regenerative medicine and the planning and conduct of experimental clinical studies through the implementation of digital medicine and telemedicine. For its characteristics, the Doctoral Course has as its aim the high training of doctors, engineers in the field of health, biologists, physicists, bio-informatics, and bio-statistics, able to transfer and integrate technological know-how in the field of medical applications. At the same time, to learn the use of advanced technologies for new diagnostic-therapeutic strategies and to improve the quality of life of patients. The main objective of the PhD is to prepare PhD students to develop scientific research projects that address a complex problem that can be at different scales, from the molecular and cellular level to living organisms to biomedical systems. They investigate original methods, devices and systems with different purposes: to increase knowledge, to propose innovative methods for diagnosis and therapy, as well as to improve health and daily life facilities and services. The Doctorate aims to develop engineering skills of high level problem solving in biomedical, health and life sciences, within research groups or in private/public industrial or clinical contexts, through a strong interdisciplinary training that combines engineering with medical/biological know-how. At the end of the PhD, candidates must be able to carry out innovative projects and research development in the field of digital medicine and bioengineering and advanced medical therapies, proposing new methodological and technical solutions and appropriately assessing the technological impact in healthcare, life sciences and biomedical industry. The Doctoral Course aims, therefore, the post-graduate training of new highly specialized professional figures who, for their interdisciplinary skills, may have new and more qualified job opportunities in universities, in public or private research institutes, in hospitals or in the pharmaceutical and biomedical industry.</p>
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech4You-Spoke 5, G5.3
<b>Title of the project</b>	<b>Methodologies for the evaluation of human well-being: design of numerical scales of motor and functional evaluation and analysis of neuroimaging data of wellness-related activities.</b>
<b>Description</b>	Study and design of numerical scales for the evaluation of well-being within the "Wellness Farm" model. The assessment of the motor and functional scales will be carried out at the beginning and at the end of the period spent in the Wellness



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	farm.
<b>Professor Proponent</b>	Dott.ssa Alessia Sarica
<b>Curriculum of affiliation</b>	Tecnologie innovative per la medicina digitale e le terapie avanzate
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.
<b>Period abroad and period in the company</b>	<p>The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency.</p> <p>The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.</p>

<b>PROJECT COD. 7/TECH</b>	
<b>PhD in</b>	Digital Medicine
<b>Course duration</b>	3 years
<b>Coordinator</b>	Prof. Daniele Torella
<b>E-mail Coordinator</b>	dtorella@unicz.it
<b>Training objectives of the course</b>	<p>The PhD in "Digital Medicine" is a multidisciplinary PhD aimed at the theoretical-practical learning of the most advanced technologies in the field of bio-medical, bio-engineering, bio-informatics and artificial intelligence, for the application development of integrated research programmes in the fields of medical surgery, regenerative medicine and the planning and conduct of experimental clinical studies through the implementation of digital medicine and telemedicine. For its characteristics, the Doctoral Course has as its aim the high training of doctors, engineers in the field of health, biologists, physicists, bio-informatics, and bio-statistics, able to transfer and integrate technological know-how in the field of medical applications. At the same time, to learn the use of advanced technologies for new diagnostic-therapeutic strategies and to improve the quality of life of patients. The main objective of the PhD is to prepare PhD students to develop scientific research projects that address a complex problem that can be at different scales, from the molecular and cellular level to living organisms to biomedical systems. They investigate original methods, devices and systems with different purposes: to increase knowledge, to propose innovative methods for diagnosis and therapy, as well as to improve health and daily life facilities and services. The Doctorate aims to develop engineering skills of high level problem solving in biomedical, health and life sciences, within research groups or in private/public industrial or clinical contexts, through a strong interdisciplinary training that combines engineering with medical/biological know-how. At the end of the PhD, candidates must be able to carry out innovative projects and research development in the field of digital medicine and bioengineering and advanced medical therapies, proposing new methodological and technical solutions and appropriately assessing the technological impact in healthcare, life sciences and biomedical industry. The Doctoral Course aims, therefore, the post-graduate training of new highly specialized professional figures who, for their interdisciplinary skills, may have</p>





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	new and more qualified job opportunities in universities, in public or private research institutes, in hospitals or in the pharmaceutical and biomedical industry.
<b>Type of Scholarship</b>	N. 1 Scholarship Ecosystems Innovation – Project Tech4You-Spoke 5, G5.3
<b>Title of the project</b>	<b>Methodologies for the evaluation of human well-being: design of numerical scales of motor and functional evaluation and analysis of neuroimaging data of wellness-related activities.</b>
<b>Description</b>	Study and design of numerical scales for the evaluation of well-being within the "Wellness Farm" model. The assessment of the motor and functional scales will be carried out at the beginning and at the end of the period spent in the Wellness farm
<b>Professor Proponent</b>	Dott.ssa Maria Eugenia Caligiuri
<b>Curriculum of affiliation</b>	Innovative technologies for digital medicine and advanced therapies
<b>PNRR Coherence: Mission</b>	The project is fully congruent with PNRR Mission 4 C2, Investment 1.5 Creation and strengthening of "innovation ecosystems" building "territorial R&D leaders" which aims to create and promote innovation and sustainability for a reference area/territory.
<b>Period abroad and period in the company</b>	The PhD students must carry out the activities of the PhD at the University of Catanzaro or in structures of other universities or research institutes in the Italian territory, unless a period of research abroad is expressly imposed by the funding agency. The PhD students have the obligation to spend a period of study and research in the company if requested by the funding body.





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## ANNEX B: FAC-SIMILE APPLICATION FOR PARTICIPATION TO BE MADE OUT IN PLAIN PAPER

Al Magnifico Rettore  
Università degli Studi Magna Græcia di Catanzaro  
Ufficio Protocollo  
Edificio Direzionale - Campus Universitario  
Viale Europa – Loc. Germaneto  
88100 Catanzaro

I undersigned (last name and first name) \_\_\_\_\_ born in \_\_\_\_\_  
on \_\_\_\_\_ (Country), email \_\_\_\_\_,

*Address elected for the purposes of selection:*

PEC \_\_\_\_\_ @ \_\_\_\_\_ e-mail \_\_\_\_\_ @ \_\_\_\_\_

Telephone + \_\_\_\_\_ / \_\_\_\_\_

City \_\_\_\_\_ ( \_\_\_\_\_ ), way/rue \_\_\_\_\_ n. \_\_\_\_\_ postal  
code \_\_\_\_\_ Country \_\_\_\_\_

### ASK

to participate in the selection for the award of n. 7 PhD scholarships that will flow into the PhD courses, XXXVIII Cycle, A.A. 2022/2023, established with D.R. n. 861 of 08.07.2022.

To this end, the undersigned, aware of the responsibilities and criminal sanctions provided for by art. 75 and 76 of D.P.R. n. 445/2000 (Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa) for false attestations and false declarations,

### DECLARE

**pursuant to and for the purposes of Articles 46 and 47 of the DPR 28 December 2000 n. 445 and s.m.i.**

1) to participate in the selection of the following research projects and in the following order of priority:

ORDER OF PRIORITY OF PROJECTS OF INTEREST	TITLE OF THE PROJECT	CODE OF THE PROJECT	PROPOSER
	<b>Identification and validation of natural pharmacological compounds for treatment of pain</b>	1/TECH	Prof.ssa Rita Citraro
	<b>Preparation and characterization of cosmetic and cosmeceutical products containing recovered or synthetic bioactive substances for human well-being</b>	2/TECH	Prof.ssa Donatella Paolino



	<b>Generation and validation of OMIC panels to validate the effects of nutraceuticals in chronic diseases</b>	3/TECH	Prof. Giuseppe Viglietto
	<b>FUTOS “FUNCTIONAL lycopene-rich Tomato sauce for OSteoporosis prevention in postmenopausal women”</b>	4/TECH	Prof.ssa Tiziana Montalcini
	<b>Generation and clinical-experimental validation of multi-omic panels for validating the efficacy of nutraceuticals and dermo-cosmetics</b>	5/TECH	Prof. Camillo Palmieri
	<b>Methodologies for the evaluation of human well-being: design of numerical scales of motor and functional evaluation and analysis of neuroimaging data of wellness-related activities.</b>	6/TECH	Dott.ssa Alessia Sarica
	<b>Methodologies for the evaluation of human well-being: design of numerical scales of motor and functional evaluation and analysis of neuroimaging data of wellness-related activities.</b>	7/TECH	Dott.ssa Maria Eugenia Caligiuri

2) to be aware that pursuant to art. 1 of the selection notice, the order of priority of the projects expressed in this application will be a binding criterion for the award of the doctoral grant;

3) to have citizenship \_\_\_\_\_

4) (*only for foreign citizens*) to have an adequate knowledge of the Italian language;

5) to have obtained the Master's Degree in (class \_\_\_\_\_) on \_\_\_\_\_ at the University of \_\_\_\_\_ with vote \_\_\_\_/\_\_\_\_; OR to be a graduate/a in Master's Degree in \_\_\_\_\_ (class\_\_\_\_) at the University of \_\_\_\_\_, expected date for the discussion of the thesis \_\_\_\_\_;

6) to undertake to attend, exclusively and full-time, the PhD course;

7) to be/to not be handicapped and to need the following support for the interview \_\_\_\_\_;

8) to have read and accept all the clauses of the selection notice and, in particular, to be aware that the interview will take place on the date indicated in art. 5 of the selection notice which constitutes an official convocation for the test itself, without further notice and that any changes will be made known only by publication on the University's website at <http://web.unicz.it/it/category/bandi-ateneo>;

9) to be aware that scholarships may not be cumulated with research grants and other scholarships for any title awarded, except those awarded by domestic or foreign institutions useful in supplementing, with stays abroad, training and research activities for scholarship holders;

10) to undertake to promptly notify any change of residence or of the chosen address for the purpose of selection;

11) to be aware that the Università degli Studi Magna Graecia di Catanzaro (P.I. 02157060795 - C.F. 97026980793), Viale Europa - 88100 Catanzaro (tel. 0961 3694001– PEC: protocollo@cert.unicz.it), processes the data provided by candidates in accordance with current legislation on the protection of personal data, as best described in the extended information available at the University, which has been viewed on the institutional website <https://web.unicz.it>; the data protection officer (DPO) is available at the e-mail address [dpo@unicz.it](mailto:dpo@unicz.it).

12) the conformity between the application and the paper documents submitted and the application and the digitised documentation in the computer medium (CD, Pen Drive, etc.) (*if the application is submitted by hand*);

13) to comply with all the conditions imposed by the funding agency and undertakes to provide at any time, at the request of the MUR, all the documentation deemed necessary by the Ministry itself, in relation to the reporting of the Research and Innovation Programme entitled “Tech4You – Technologies for climate change adaption and quality of life improvement”;



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14) to commit to always include in the research products made references to the aforementioned Research and Innovation Programme;

I, the undersigned, attach to this application the following documents:

- (Annexes - see pp. 5-6 of the selection notice)

.....  
.....

Place and date \_\_\_\_\_

Handwritten signature\* (full and legible)

\_\_\_\_\_  
(\*attach a photocopy of a valid identification document)

I, the undersigned, give my consent so that the data provided may be processed in accordance with EU Regulation 679/2016 (General Data Protection Regulation - GDPR) for compliance related to this selection procedure also with regard to the possible publication of lists of candidates; and final evaluation of the commission and of Legislative Decree 10 August 2018, n. 101.

The Università degli Studi Magna Graecia di Catanzaro (P.I. 02157060795 - C.F. 97026980793), con sede in Viale Europa - 88100 Catanzaro (tel. 0961 3694001– PEC: protocollo@cert.unicz.it), processes the data provided by candidates in accordance with current legislation on the protection of personal data, as best described in the extended information available at the University, which has been viewed on the institutional website <https://web.unicz.it>; the data protection officer (DPO) is available at the e-mail address [dpo@unicz.it](mailto:dpo@unicz.it).

Place and date \_\_\_\_\_

Handwritten signatur (full and legible)

\_\_\_\_\_