

Public competition, by qualifications and examinations, for assignment of no. 2 PhD scholarships funded by the Project “*Innovation Ecosystems*” – “*Sicilian MicronanoTech Research And Innovation Center – SAMOTHRACE*” - CUP J43C22000310006 – and no. 3 PhD scholarships funded by PNRR – “*ITSEER Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)*” - CUP B53C22001770006, within the PhD Courses activated by the University of Messina – 38th CYCLE.

THE RECTOR

IN VIEW OF the Law of 3rd July 1998, No. 210, and in particular art. 4 in the matter of PhD courses, as amended by art. 19, paragraph 1, of the Law of 30th December 2010, No. 240;

IN VIEW OF the Statute of the University, issued with D.R. No. 1244 of 14th May 2012 (published on G.U. - General Series No. 116 of 19th May 2012) and amended with D.R. No. 3429 of 30th December 2014 (published on G.U. - General Series No. 8 of 12th January 2015);

IN VIEW OF D.M. No. 226 of 14th December 2021 concerning “*Regulation laying down procedures for the accreditation of PhD centers and PhD courses and criteria for the establishment of PhD courses by accredited bodies*”;

IN VIEW OF the Regulation of the University of Messina concerning the PhD courses, issued with D.R. No. 834 of 25th March 2022;

IN VIEW OF D.M. No. 301 of 22nd March 2022 with which the “*Guidelines for the accreditation of PhD courses*” were approved (Ministerial Note No. 8424 of 23rd March 2022, prot. No. 38641 of 24th March 2022) and D.M. No. 289 of 25th March 2021, with which the “*General guidelines of the programming of the Universities 2021-2023 and indicators for the evaluation of the results*” were defined;

IN VIEW OF the resolutions of the Academic Senate and the Academic Board, respectively prot. no. 69064 of 30th May 2022 and prot. no. 69066 of 30th May 2022, with which, for the 38th cycle, the proposals for renewal, new activation, and participation in PhD Courses in a partnership or in PhD courses of national interest and the allocation of positions, once evaluated the consistency with the objectives of the PNRR, were approved, as well as, with regard to no. 15 PhD Courses based at the University of Messina, the initiation of the selection procedures, by qualifications and examinations, for admission to the PhD Courses of the 38th cycle, was established and subsequent D.R. No. 1741 of 27th June 2022 (prot. no. 82863 of 27th June 2022), with which the *public competition, by qualifications and examinations, for admission to no. 15 PhD Courses, activated by the University of Messina – 38th cycle* was launched;

IN VIEW OF the resolutions of the Academic Senate and the Academic Board, respectively, prot. no. 121259 and no. 121739 of 3rd October 2022, with which the publication of a Call for presentation of applications for assignment of additional PhD scholarships was authorized, open to all the eligible candidates not already recipients of D.M. 351/2022 and D.M. 352/2022 scholarships in the competition for admission to the PhD Courses 38th cycle of the University of Messina, and subsequent D.R. No. 2603 of 5th October 2022 (prot. no. 123678 of 5th October 2022) with which the aforementioned *Call for presentation of applications for assignment of no.14 PhD scholarships* was established;

IN VIEW OF D.D.G. No. 3277 of 30th December 2021, with which MUR, as part of the National Recovery and Resilience Plan, Mission 4 “*Education and Research*” – Component 2 “*From Research to Company*” – Investment 1.5, funded by the European Union – NextGenerationEU, approved the *Call for presentation of Intervention Proposals for creation and strengthening of “innovation ecosystems”, building of “R&S territorial leaders” – Innovation Ecosystems*;

IN VIEW OF D.D.G. No. 1059 of 23rd June 2022, with which the Innovation Ecosystem “*Sicilian*

IN VIEW OF

MicronanoTech Research and Innovation Center – SAMOTHRACE”, field of intervention “4. Digital, Industry Aerospace”, for the implementation of the Research and Innovation Programme titled “Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE” was financed by MUR;

NOTED

the resolutions of the Academic Senate and the Academic Board, respectively prot. no. 121259 and no. 121739 of 3rd October 2022, with which the publication of a Call for assignment of additional PhD scholarships in order to select the candidates and the related PhD projects for the implementation of the Research Programme “Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE” was also authorized, the Rectoral note prot. no. 11123 of 30th January 2023 with which it is requested to execute what was authorized with the aforementioned resolutions, and subsequent D.R. rep. no. 332/2023 (prot. no. 14454 of 3rd February 2023) with which the *Call for presentation of applications for assignment of no. 10 additional PhD scholarships funded by the Project “Innovation Ecosystems” – “Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE”* was published; also that the University of Palermo with resolution no. 15 of 9th November 2022 of the Board of the Department of Mathematics and Computer Science (prot. no.143602 of 10th November 2022) and subsequent resolutions no. 12/08 of 16th November 2022 of the Academic Senate and no. 10/16 of 17th November 2022 of the Academic Board (prot. 156401 of 2nd December 2022) granted no. 3 additional PhD scholarships on the project PNRR ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers) to the PhD Course in Mathematics and Computational Sciences, in partnership with the Universities of Catania and Messina, the latter to be the administrative headquarters, and that in the light of the aforementioned resolutions the three universities, which had already signed the Agreement for activating and financing the PhD Course in “Mathematics and Computational Sciences” 38th cycle A.Y. 2022/2023 (rep. 647/2022) signed an Addendum to the same Agreement (rep. 16/2023 prot. 3271 of 13th January 2023), which, changing articles 3 and 7, agrees to publish a Call for assignment of the no. 3 additional PhD scholarships on the *project PNRR ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)*, at UNIME, administrative headquarters;

IN VIEW OF

the resolution of the Academic Board of 31st January 2023 prot. no. 13673/2023, with which the Administrative Department of Scientific Research and Internationalization is authorized to publish a Call for assignment of no. 3 PhD scholarships in “Mathematics and Computational Science”, funded by the **Project “PNRR – ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)”** and no. 1 PhD scholarship in “Physics”, funded by the **Project “Actions to improve water body quality” – Line of Intervention L2 “Identification of significant morphological alterations to water bodies – Studies for sediment management Programs art 117 paragraph 2 quarter D.Lgs. 152/2006”** and subsequent D.R. Rep. no. 621/2023 (prot no. 24740 of 23rd February 2023)” with which the *Call for assignment of the PhD scholarships in “Mathematics and Computational Sciences” and “Physics”* was launched;

IN VIEW OF

the Rector’s Decrees with which the procedures were approved and the merit rankings and the assignment of the PhD scholarships granted with the aforementioned Call for assignment of additional PhD scholarships, and in particular, DD. RR. No. 683-685-686-687-688-689-690/2023, related to the Call for assignment of additional PhD scholarships referred to in D.R. no. 332/2023, and DD. RR. No. 863-864/2023, related to the subsequent Call for assignment of additional PhD scholarships referred to in D.R. no. 621/2023, were published;

NOTED THAT following the aforementioned procedures, the following PhD scholarships **are not currently assigned**: a) with regard to the Project “Innovation Ecosystems” – “Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE” **no. 1 PhD Scholarship for the PhD Course in “Bioengineering Applied to Medical Sciences” and no. 1 PhD Scholarship for the PhD Course in “Veterinary Sciences”**; b) with regard to the Project PNRR - ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)”, **no. 3 PhD Scholarships for the PhD Course in “Mathematics and Computational Sciences”**;

GIVEN THAT with the resolutions of the Academic Senate and the Academic Board of 25th November 2022, respectively prot. no. 154465 and no. 154737 of 30th November 2022 (for the Project “Innovation Ecosystems” – “Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE”) and with the resolution of the Academic Board prot. no. 13673/2023 of 31st January 2023, (for the Project **PNRR – “ITSERR Italian Strengthening of the ESFRI RI RESILIENCE Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers”**), if the aforementioned Calls had not made possible to select all the necessary roles, the publication of a new Call for assignment of the not assigned PhD scholarships, by reducing and/or changing the terms and methods of the selections, possibly also by way of derogation from University regulatory provisions, was authorized;

IN VIEW OF the specific profiles (Topics of the Work Packages) required for the no. 5 PhD scholarships of this Call;

IN VIEW OF D.M. No. 247 of 23rd February 2022 with which, starting from 1st July 2022, the annual amount of the scholarship for the attendance of the PhD courses was redetermined in € 16.243,00, gross of social security charges payable by the recipient;

IN VIEW OF the need to adhere to the transversal principles provided by the PNRR, including, among others, the principle of contribution to the climate and digital goal (so called tagging), the principle of gender equality and the obligation of protection and enhancement of young people;

GIVEN that the total cost of the PhD Scholarships of this Call for the amount of € **140.000,00** is funded by the **Project “Sicilian MicronanoTech Research And Innovation Center SAMOTHRACE”**, CUP J43C22000310006 – Project Code PNRR_SAMOTHRACE_INVESTIMENTO_1.5, as stated in the certification prot. no.39868 of 24th March 2023 and for the amount of € **209.972,43**, is funded by the Project **PNRR - ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)**, CUP B53C22001770006, accounting project DR_38_MATEM_UNIPA;

WITHOUT PREJUDICE TO any subsequent amendments and/or additions to this Call that will be advertised on the website of the University of Messina at the address <https://www.unime.it/bandi-e-concorsi>.

DECREES

Art. 1

PhD scholarships for which applications can be presented

With regard to the PhD Courses mentioned below, activated at the University of Messina, for A.Y. 2022/2023 (38th Cycle) **the following PhD scholarships** are available:

PhD scholarships on obligatory Projects		
PhD Courses	Projects	Number of PhD Scholarships
BIOENGINEERING APPLIED TO MEDICAL SCIENCES	<i>PNRR - SAMOTHRACE</i> – SiciliAn MicronanOTech Research And Innovation Center” - CUP J43C22000310006.	NO. 1
VETERINARY SCIENCES	<i>PNRR - SAMOTHRACE</i> – SiciliAn MicronanOTech Research And Innovation Center” - CUP J43C22000310006.	NO. 1
MATHEMATICS AND COMPUTATIONAL SCIENCES	<i>PNRR - “ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)</i> - CUP B53C22001770006.	NO. 3

Please note: the Project Proposal must be carried out by the candidate taking into consideration:

- for the PhD scholarships in BIOENGINEERING APPLIED TO MEDICAL SCIENCES and in VETERINARY SCIENCES, **the Topics** of the Work Packages of the Project “Sicilian MicronanoTech Research And Innovation Center – SAMOTHRACE” **indicated respectively in Annexes no. 1 and 2;**
- for the PhD scholarships in MATHEMATICS AND COMPUTATIONAL SCIENCES, **the Topics** of the Project “PNRR ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)” **indicated in Annex no. 3.**

The duration of the PhD Courses is **three years**.

Art. 2

Admission requirements

Can participate in the selections, without age and citizenship restrictions:

- a) those who, **at the deadline of the Call**, have obtained the specialist degree (D.M. No. 509/1999), or alternatively, the Master's degree diploma (D.M. No. 270/2004), or the degree diploma (old system), or a similar academic qualification, also obtained abroad, and declared equivalent, or recognized as suitable for admission to PhD Courses, based on the principles sanctioned by international conventions on the subject;
- b) or those who **do not meet the requirement above at the deadline of the Call, provided that** they achieve the qualification required for participation within the deadline for the enrollment in the PhD course, under penalty of forfeiture of admission, in the event of a successful selection.

In the latter hypothesis, candidates who pass the selection tests provided for by this Call and obtain the title within the deadline for the enrollment in the PhD course must send to the Rector of the University of Messina at the e-mail address protocollo.pec@unime.it or at protocollo@unime.it the self-certification relating to the achievement of the qualification together with a valid identification card (or certification, in case of academic qualification obtained in countries belonging or not belonging to the European Union), and the official translation in Italian or English language issued by the University that awarded the title indicating:

- type of title;
- name of the University that issued the title;
- date of graduation;
- final vote.

Those who, for any reason, will not communicate the achievement of the degree within the established terms **will be excluded** from the Courses.

The provisions concerning the access of foreign students to PhD courses academic year 2022/2023 can be consulted by visiting the MUR website (<http://www.studiare-in-italia.it/studentistranieri>) and the institutional website of the University (<https://international.unime.it/research/phd-programmes>).

The suitability of the foreign qualification will be ascertained by the PhD examination Committee, for the sole purpose of this selection, in compliance with the provisions in force in Italy and in the country where the qualification was issued and with international treaties or agreements concerning the recognition of qualifications for the continuation of studies.

Those who are already recipients of **D.M. no. 351/2022 and no. 352/2022 scholarships**, in the merit ranking within the selection procedure referred to in D.R. No. 1741 of 27th June 2022 and subsequent Call D.R. No. 2603 of 5th October 2022 **cannot participate in this Call**.

All candidates are admitted to the selection conditionally subject to verification of the self-certified declarations according to Presidential Decree No. 445/2000 and subsequent amendments and additions. At any time of the procedure, even after the start of the PhD courses, the University may check the veracity of the statements produced. In the event of false declarations, the University may order, at any time, with the Rector's provision, the exclusion of candidates from the selective procedure, or the forfeiture from admission to the PhD Courses, without prejudice to the penal responsibilities arising therefrom.

Candidates may apply for admission to several PhD courses, provided that they are given an **option** for only one of them if they are in a useful position in more than one ranking.

Art. 3 How to apply

In accordance with current legislation, the University of Messina has adapted its IT systems through the implementation of **SPID**, which represents the authentication system that allows citizens to access the online services of public administrations with a single Digital Identity.

The submission of the application to participate in the selection, including the documentation indicated in **Attachments No. 1-3**, takes place electronically through the Esse3 platform <https://unime.esse3.cineca.it/Home.do> through:

- Login with SPID for adult candidates;
- Login without SPID for minors and foreign citizens.

The submission of the application for participation through the online procedure implies the acceptance by the candidates of the rules contained in this Call, including **Attachments No. 1-3**, that are an integral part of it, and in the current PhD course Regulation at the University of Messina, in the rules established by the Funder of the scholarship, as well as in the other legislation in force.

The procedure for participation in the selection will be active **for 15 days** starting from the day following the online publication of the Call in the University Register at the address <http://www.unime.it/it/ateneo/amministrazione/albo-online>. After this period, the connection will be no longer active, and it will be no longer possible to complete the application form.

Applications received after the indicated deadline or produced and/or received in a different way, **will be excluded**.

In the application, the candidate must declare the possession of the requirements to access the selection referred to in art. 2, in particular, EU and non-EU citizens candidates, in possession of foreign qualification(s) obtained in EU and non-EU countries, **must attach** the qualification certificate(s) possessed (Master's degrees) from which it is deduced:

- the duration of the study Course;
- the list of exams taken with relative marks (transcript of records);
- the name of the University that issued the title;
- the date of achievement and the final grade;

with attached an official translation in Italian or English language, **issued by the University that awarded the degree.**

The candidate must also indicate the Course and the Curriculum (where present) for which he/she intends to participate.

For each scholarship with an obligatory Project of this Call, **the Topics** to be observed by the candidate in the drafting of his/her own Research Project are indicated in **Attachments No. 1-3.**

Candidates who intend to participate in the selection for more than one PhD Course must submit an online application for each Course, attaching to each of them, the documentation required in **Attachments No. 1-3.**

Candidates must attach, for evaluation purposes, the documents listed in **Attachments No. 1-3 in PDF format.**

According to what is expressly provided for in articles 46 and 47 of Presidential Decree No. 445/2000 and subsequent amendments and additions, candidates who can make use of self-certifications are:

- Italian and EU citizens;
- citizens of countries outside the European Union, legally residing in Italy, **limited to** status, personal qualities, and facts certifiable or verifiable by Italian public bodies (in particular: Master's degree obtained at an Italian University).

The candidate with a disability must specify, in the application form, the necessary aid concerning his/her disability and any need for additional time, documented by a suitable certificate issued by the Public Health Authority responsible for the area, pursuant to Law No. 104/92, as amended by Law No. 17/99.

The candidate with a diagnosis of specific learning disorders (SLD) must specify, in the application form, the necessary compensatory tools and any need for additional time, documented by a suitable certification issued by no more than three years by NHS Structures, or by specialists and structures accredited by the same, pursuant to Law No. 170/2010 and subsequent guidelines D.M. No. 5669, 12th July 2011.

For any information, the candidate may contact the University's "Disability Services/SLD" Operational Unit, located in Via Consolato del Mare, No. 41, Palazzo Mariani, Messina, e-mail: udisabili@unime.it tel. 090 676 8986/5066.

At the end of the procedure, the payment of the participation fee of € 50.00 (fifty euros) must be made through the PagoPA® system. The aforementioned payment must be made **by the day of expiry of the Call.**

Only for candidates residing abroad, the payment of the contribution can be made by bank transfer on the IBAN account IT 16W 02008 16511 000300029177 BIC SWIFT CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below "<surname and name of the candidate> Contribution for participation in the PhD <title of the PhD course>".

The contribution for participation in the competition is not refundable for any reason. The candidate must carefully preserve the payment receipt and exhibit it in case of request.

Candidates from particularly poor and developing countries, as defined in the Ministerial Decree of 7th April 2022 (D.M. No. 344/2022), **are exempt from the payment of the aforementioned contribution.**

For the academic year 2022/2023, according to the aforementioned D.M., the countries listed below are to be understood particularly poor and developing:

Afghanistan; Angola; Bangladesh; Benin; Bhutan; Burkina Faso; Burundi; Cambodia; Central African Republic; Chad; Comoros; Democratic People's Republic of Korea; Democratic Republic of the Congo; Djibouti; Eritrea; Ethiopia; Gambia; Guinea; Guinea Bissau; Haiti; Kiribati; Lao People's Democratic Republic; Lesotho; Liberia; Madagascar; Malawi; Mali; Mauritania; Mozambique; Myanmar; Nepal; Niger; Rwanda; São Tomé and Príncipe; Senegal; Sierra Leone; Solomon Islands; Somalia; South Sudan; Sudan; Syrian Arab Republic; Tanzania; Timor Leste; Togo; Tuvalu; Uganda; Yemen; Zambia.

Art. 4

PhD examination Committees

The examination Committees for admission to the PhD courses are appointed by Rector's Decree on the proposal of the PhD Academic Board, in compliance with art. 14 of the current PhD Course Regulation at the University of Messina.

The aforementioned Decree will be published, after the deadline for the submission of the application form has expired, on the University website at the link <https://www.unime.it/bandi-e-concorsi> with notification value by the University.

Art. 5

Examinations

Admission to PhD courses is by selection, by qualifications and examinations, according to the modalities and in compliance with the criteria, indicated in Attachments No. 1-3 of this Call.

The diary of the tests is indicated below and will be valid to all intents and purposes as the official convocation of the candidates, without prejudice to subsequent notices that will be published on the University website, at the link <https://www.unime.it/bandi-e-concorsi>.

PhD Courses	Diary of oral tests
<p>BIOENGINEERING APPLIED TO MEDICAL SCIENCES <i>PNRR - SAMOTHRACE" – SiciliAn MicronanOTech Research And Innovation Center" - CUP J43C22000310006.</i></p>	<p>The oral test will take place blended at the Department of Engineering, in the Meeting Room on the 8th floor, Block B (opposite the Director's office) on 3rd May 2023 at 11:00 a.m.</p>
<p>VETERINARY SCIENCES <i>PNRR - SAMOTHRACE" – SiciliAn MicronanOTech Research And Innovation Center" - CUP J43C22000310006.</i></p>	<p>The oral test will take place electronically on 2nd May 2023 at 11:00 a.m.</p>
<p>MATHEMATICS AND COMPUTATIONAL SCIENCES <i>PNRR – "ITSERR Italian Strengthening of the ESFRI RI RESILIENZA (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers) - CUP B53C22001770006.</i></p>	<p>The oral test will take place electronically on Microsoft Teams platform on 2nd May 2023 at 15:00 a.m.</p>

The work of the PhD Committee can be carried out electronically, through the IT platform. The links relating to the selection rooms will be published on the University website at the link

<https://www.unime.it/bandi-e-concorsi>.

The PhD examination Committee first proceeds with the definition of the evaluation sub-criteria that will be followed in the assignment of the overall score, which will be published on the University website at the link <https://www.unime.it/bandi-e-concorsi>.

Subsequently, based on the same sub-criteria, the Committee evaluates the qualifications presented by the participants, the outcome of which will be visible to each candidate through restricted access to the Esse3 platform.

Candidates are not permitted to attend this evaluation.

Once the evaluation of qualifications is completed, the Committee proceeds to the examination tests in compliance with the criteria indicated for each PhD course in **Attachments No. 1-3** of this Call.

The oral test consists of an interview aimed at verifying the knowledge, the ability, the aptitude for scientific research, and the motivations of the candidates; this interview is also aimed at verifying the knowledge of the candidates on topics concerning the educational and methodological guidelines of the PhD and may include the discussion of the proposed research project.

During the interview, the knowledge of the language/languages required in **Attachments 1-3** of this Call is tested.

Oral tests are public.

The oral tests can be carried out, also electronically, via the Microsoft Teams (teams.microsoft.com) IT platform.

The candidate will have to guarantee the use of a webcam to allow his/her identification to the PhD Examination Committee.

Before the interview begins, **under penalty of exclusion from the competition**, the candidate must identify himself/herself by showing a valid identity document, preferably the same one uploaded on Esse3 at the time of the submission of the admission application.

The candidate who is unavailable or does not appear on the day or time set for the interview **must be considered as having been renounced**.

The University declines any responsibility for the eventuality that technical reasons prevent the regular conduct of the interview.

The final selection score, expressed in hundredths, is given by the sum of the marks reported in the individual assessments (qualifications and exams).

The outcome of the individual assessments, for each candidate, will be published in the restricted access area of the Esse3 system (<https://unime.esse3.cineca.it>).

At the end of the selection, based on the scores obtained in the evaluation of the qualifications and the exam tests, the Committee compiles **the general merit ranking** with the list of the candidates.

All the Commissions must complete the work without delay **by and no later than 5th May 2023**.

The general merit ranking is issued with Rector's Decree and is published on the University website with legal notification value for all intents and purposes.

Art. 6 Admission to PhD courses

Candidates beneficiaries of the PhD scholarships of this Call are admitted to PhD courses according to the ranking order up to the number of PhD scholarships available for the competition.

With equal merit, prevails the assessment of the most difficult economic situation determined under the current legislation, and in case of further equality, prevails the youngest candidate of age, pursuant to the provisions of art. 20 of the University Regulation.

As the PhD scholarships of this Call are specifically funded by external bodies, and, therefore they are bound to the respect of precise procedures and deadlines for reporting the related charges, both by the University, as implementing body, and by the PhD student recipient of the scholarship, candidates who are holders of research grants may be admitted **renouncing the research grant** and choosing the enrollment with scholarship, while public employees who are admitted, instead, may request, for the period of the normal duration of the course, the unpaid leave provided for by national collective

bargaining or, for employees under public law, the special leave for study purposes, consistent with the needs of the administration, in accordance with art. 2 of Law 13th August 1984, no. 476, and subsequent amendments, **without pay**.

Art. 7 Enrollment Procedures

Candidates recipients of the PhD scholarships based on the final ranking must express their acceptance **within 3 days from the publication** of the evaluation results on the website <https://www.unime.it/bandi-e-concorsi>. Failure to complete the enrollment will result in the forfeiture from admission to the PhD Course. **No personal communications will be sent to candidates. Candidates admitted to the PhD courses are responsible for checking the dates and enrollment procedures.**

The candidate who participated in more than one selection procedure and ranked successfully in more than one ranking, must proceed with enrollment by exercising the right of option for one of the PhD courses **within 3 days** from the publication of the final rankings of all the PhD courses to which he/she is admitted. Failure to complete the enrollment in the chosen course will result in the **forfeiture of admission** to all the PhD courses in which the candidate has been admitted.

Candidates must use the enrollment procedure prepared by the Administration, available on the website <https://unime.esse3.cineca.it/>.

Simultaneous enrollment in more than one PhD course is not permitted, in accordance with art. 12 of the Phd Regulation. **Simultaneous enrollment in other Courses or Schools is permitted, in compliance with what is established by the Law No. 33 of 12th April 2022 and subsequent implementing decrees to which is made reference.**

Candidates in possession of a foreign academic qualification (Master's degree) obtained in EU countries must attach to the application form:

certificate(s) of the qualification(s) possessed with attached an official translation, in Italian or English language, **issued by the University that awarded the qualification.**

Candidates in possession of a foreign academic qualification obtained in non-EU countries must attach to the application form:

- a) certificate(s) of the qualification(s) possessed (Master's degrees) with attached a translation, in Italian or English language, declared compliant with the text by the Italian competent diplomatic or consular representations abroad;
- b) dichiarazione di valore in loco issued by the Italian competent diplomatic or consular representations abroad, certifying the duration of the study program together with the list of exams taken with the related marks and the academic value of the qualification in the country that issued it.

Candidates in possession of a qualification obtained abroad, who do not produce the required documentation at the time of enrollment, will be enrolled with a reserve and **will be excluded** from the PhD course if they fail to deliver such documentation within **six months** from the beginning of the course and/or following the verification, if the title produced does not comply with the requirements of this Call.

Foreign candidates, who need a visa to stay in Italy, must register on the portal <https://www.university.it/>, apply for pre-enrollment in the PhD course and follow the procedure indicated therein to issue the visa.

Non-EU citizens must also produce a copy of a regular residence permit **within ten days** from the issuing.

Agreement between the winner of the PhD Scholarship of this Call and the University, where required by the Funder, will be regulated by the drawing up of a contract. The contract must be signed

by the winner with the digital signature.

The insertion of untruthful data in the application form will result in exclusion from the final ranking and the office forfeiture. In this case, the University Administration has the right to recover any benefit granted. In addition to the prescribed penalties, the mendacious declaration may entail, for the subject involved, actions for compensation of damages by the counterparties concerned.

Art. 8 **Scrolling of ranking and replacement**

In the event of forfeiture or waiver by admitted candidates, the final ranking will be scrolled down for positively evaluated candidates **only** in accordance with the procedures and deadlines provided for by the rules related to the individual Projects of this Call and within the limits of the available financial coverage.

The suitable candidate, usefully placed in the ranking, will be sent the scrolling notification via email.

Within the **peremptory term of three days** from the communication, the candidate must explicitly and unequivocally express his/her will regarding the scrolling of the ranking in his/her favor by a communication to be sent to the University at the e-mail address protocollo@unime.it.

After this period, the candidate will be considered a renouncer.

The candidate who expressed his/her consent to the scrolling of ranking must enroll within the maximum time limit specified by the administration in the decree of scrolling.

Art. 9 **Taxes and fees**

The contributory requirements for enrollment and registration to PhD Courses have been established with resolutions of the Academic Senate and the Academic Board of 27th June 2019 and 12th November 2019.

At the time of enrollment, the admitted candidate, Italian and foreign, with and without the scholarship, is required to pay through the PagoPA® system the amount of € 156,00 (equal to € 140,00 regional tax and € 16,00 virtual stamp).

Admitted candidates, as beneficiaries of a scholarship, are required to pay an all-inclusive contribution, for each year of the PhD course, quantified according to the ISEE income classes generally defined for student's contribution.

At the time of enrollment/registration, the PhD student beneficiary of a scholarship **must** express his/her consent to the acquisition of "ISEE Dottorato" by the University. Otherwise, he/she will be placed in the highest income bracket.

The request to issue the "ISEE Dottorato" certificate must be made at the CAF or other appointed subjects.

The amount of the PhD all-inclusive annual contribution is calculated based on the acquisition of "ISEE Dottorato" through the INPS Application Cooperation system and must be paid, as prescribed by the PagoPA® system, respecting the deadlines established by the University.

The penalty fee for late payment of the single deadlines is € 28,00.

Admitted foreign candidates (belonging or not to the European Union), non-residents and not producing income in Italy, are required to pay a PhD single annual all-inclusive contribution equal to € 750,00.

Total or partial exemption from the payment of taxes and fees is established by the Regulation on student's contributions, and in particular by articles 2 and 6 of the aforementioned Regulation, and by each and every other relevant provision.

Art.10 Scholarships

The PhD scholarship of this Call starts from the date indicated in the Rector's Decree of assignment of the scholarship. The scholarship is annually renewed, following a positive verification by the PhD Academic Board about the completion of the program of the activities planned for the previous year, as provided for by art. 20 of the PhD Regulation of the University of Messina.

Starting from 1st July 2022, the annual amount of the scholarship for the attendance of the PhD courses is equal to € 16.243,00, gross of social security charges payable by the recipient.

The scholarship cannot be combined with any other scholarship, assigned for any purpose, except for those granted by Italian or foreign institutions useful for integrating the PhD student's training and research activity with stays abroad. The PhD scholarship is subject to the payment of social security contributions INPS "Gestione Separata" in accordance with current legislation, of which two-thirds shall be borne by the administration and one-third by the PhD student with a scholarship.

Art. 11 Rights and obligations of the PhD Student

PhD students must attend the courses and continuously carry out study and research activities under the approved individual program, as provided for by art. 23 of the University Regulation.

For the scholarships with an **obligatory Project** of this Call, the PhD student must comply with all the conditions imposed by the Funder and is committed to providing at any time all the documents considered necessary by MUR, in relation to the reporting of the specific obligatory Project funded.

The PhD student recipient of the **PhD Scholarships in Mathematics and Computational Sciences** must carry out research activities **mainly at the registered venue of the University of Palermo**.

Art. 12 Attendance, suspension, forfeiture, and waiver

For regulation on attendance, suspension, forfeiture and waiver, reference is made to art. 24 of the current PhD Regulation of the University of Messina, without prejudice to respect of the constraints of all the rules related to the Project "SAMOTHRACE" – SiciliAn MicronanoTech Research and Innovation Center and to the **PNRR Project** – "ITSEER Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructures: Tools, Innovation, Experts, Connection and Centers).

Art.13 Processing of personal data

Pursuant to art. 13 of European Regulation 2016/679, this University is the owner of the processing of personal data provided by the candidate to this selection and the same processing will be carried out in compliance with the aforementioned European Regulation for the purposes of fulfilling the disclosure requirements referred to in Legislative Decree 33/2013. Data may be used and stored exclusively for the legal obligations related to the activity of this selection. Provision of data is required for these purposes. Data will be processed by this University, as Data Controller, in compliance with the provisions of European Regulation 2016/679 in the manner foreseen by the full set of information published on the University website. In accordance with art.15 ff. of European Regulation 2016/679, personal data collected by the Data Controller, may be checked and rectified, updated or deleted in any case and at any time, by contacting the Data Processing Officer (reachable at the email address: **rpd@unime.it**) and in the case of non-compliance with European Regulation 2016/679 a complaint may be addressed to the Personal Data Protection Authority.

The notice is available in the privacy section of the University, <https://www.unime.it/privacy-e->

[cookie-policy](#), and is an integral part of this Call. The candidate acknowledges having read the aforementioned notice by signing the application form.

Art. 14

Properties of Results and Confidentiality

The intellectual and industrial property rights on the results that may be achieved by the PhD student, including, but not limited to, softwares, industrial inventions that can be patented or not, knowhow, models, data, and data collections, are regulated in accordance with current legislation and the University regulations and possibly, on the basis of what is established in the individual agreements with the Universities, Companies or Organizations involved and in the ministerial regulations related to the financing of the assigned scholarships.

The PhD student who realizes that he has achieved an invention is obliged to communicate it to his/her Tutor and Co-tutor immediately and the Coordinator, and from that moment on, he/she will be required to respect confidentiality obligations.

The PhD student recipient of Scholarships under the resources of the PNRR undertakes to observe the provisions of the ministerial regulations related to the financing.

Art. 15

Responsible for the procedure

The person in charge of administrative procedure is Dr. Angelina Venezia, Head of the "PhD Unit" of the Administrative Department "Scientific Research and Internationalization" of this University. For information, interested parties may contact the PhD Unit, telephone numbers: 090 676 8716/8502/8286/8277/8281 e-mail: dottorati@unime.it.

Art. 16

Norme finali

Although not expressly mentioned in this Call, reference is made to the current legislation on the subject, and in particular to the rules contained in art. 4 of Law 210/1998, in art. 19 of Law No. 240/2010, in D.M. No. 226/2021 and in the Regulation of the PhD courses of the University of Messina (D.R. No. 834/2022), in Legislative Decree No. 81/2015 and subsequent amendments and additions, in the Regulation for the discipline of the patent activity of the University of Messina (D.R. No. 2773/2020), including those contained in the Agreements for the establishment of PhD courses in agreement and/or for the financing of scholarships, in the rules established by the Funder and related guidelines, as well as in the other current provisions.

Participation in the procedure implies, as previously acquired, consent to the release of the documents presented and of the minutes of the competition, in the case of a request by the other competitors, pursuant to the legislation on access to documents.

The University assumes no responsibility for the dispersion of communications resulting from inaccurate indications of residence and address by the candidate or failure or late communication of the change of the same, nor for any postal or IT errors not attributable to the fault of the University itself.

This Decree, written both in Italian and in the English language, will be published on the register of the University at the following links <https://archivio.unime.it/it/ateneo/amministrazione/albo-online> and <https://www.unime.it/bandi-e-concorsi>.

The Call will be advertised also on the EU websites Euraxess, on the website of the Italian Ministry of University and Research (MUR), and on the website of the University of Messina.

IL RETTORE
Prof. Salvatore Cuzzocrea

Public competition, by qualifications and examinations, for assignment of no. 2 PhD scholarships funded by the Project “*Innovation Ecosystems*” – “*Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE*” - CUP J43C22000310006 – and no. 3 PhD scholarships funded by PNRR – “*ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)*” - CUP B53C22001770006, within the PhD Courses activated by the University of Messina – 38th CYCLE.

ATTACHMENT NO. 1

Title of the PhD course

PhD course in: BIOINGEGNERIA APPLICATA ALLE SCIENZE MEDICHE (BIOENGINEERING APPLIED TO MEDICAL SCIENCES)

PhD Coordinator: Prof. Michele Gaeta

E-mail: michele.gaeta@unime.it

Website of the PhD course:

<https://archivio.unime.it/it/dottorato/bioingegneria-applicata-alle-scienze-mediche>

Information on the characteristics of the PhD course can be found on the page

<https://archivio.unime.it/it/ricerca/offerta-dottorati/38/116>

PHD SCHOLARSHIPS AVAILABLE FOR THE COMPETITION

PhD scholarships on PNRR obligatory Project	NO. 1 PHD SCHOLARSHIP <i>PNRR - SAMOTHRACE” – SiciliAn MicronanOTech Research And Innovation Center” - CUP J43C22000310006</i>
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Type of qualification required

LM-18 Informatica (Master’s Degree in Computer Science)

LM-32 Ingegneria informatica (Master’s Degree in Computer Engineering)

23/S Informatica (Master’s Degree in Computer Science)

35/S Ingegneria Informatica (Master’s Degree in Computer Engineering)

Lauree Vecchio Ordinamento equipollenti (Equivalent Degrees – Old System)

The suitability of the foreign qualification will be determined by the PhD examination Committee, only for the purpose of this selection procedure, in accordance with current regulations in force in Italy and in the Country where the qualification was issued, and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to be attached to the application for the purpose of evaluating the candidates:

1. curriculum vitae;
2. self-certification of the qualification, with date and autograph signature, indicating:
 - a) Italian University that issued the qualification,

- b) type and denomination of the Master's Degree,
 - c) date of graduation,
 - d) final vote,
 - e) list of examinations with related marks and indication of CFU (credits) acquired, where required;
3. Master's degree thesis;
 4. publications;
 5. professional experiences;
 6. other qualifications in possession of the candidate;
 7. research project.

Instead of document no. 2, for candidates **not yet in possession of the required qualification (undergraduates)**:

- self-certification, with date and autograph signature, indicating:
 1. University where they are enrolled;
 2. type and denomination of the Master's Degree;
 3. list of examinations with related marks and indication of CFU (credits) acquired, where required.

For the purposes above, candidates who can make use of self-certifications, as expressly provided for in articles 46 and 47 of Presidential Decree No. 445/2000 and subsequent amendments and additions, are:

- Italian and EU citizens;
- citizens of countries not belonging to the European Union, legally residing in Italy, **limited to** states, personal qualities and facts certifiable or verifiable by Italian public entities (specifically: degree obtained at an Italian University).

Candidates must attach to the procedure a scanned copy of a valid ID card [with photo].

Please note: **EU and non-EU citizens** candidates, **with a foreign qualification/foreign qualifications of study achieved in EU and non-EU countries, must attach the certificate of title/s of study held** (Master's degrees) from which it is deduced:

1. the duration of the study course;
2. the list of examinations with related marks (transcript of records);
3. the indication of the University which issued the qualification;
4. the date of graduation and the final vote;

with attached an official translation in Italian or English, released by the University that issued the title.

[Procedures and criteria for the selection and evaluation of the candidates](#)

1. Titles

The maximum score attributable to the qualifications will be **15/100 points**.

The evaluable titles are:

1. curriculum vitae;
2. university career (profit exams, graduation grade);
3. Master's degree thesis;
4. any publications;
5. any professional experiences.

2. Project

The maximum score attributable to the research project will be **20/100 points**.

The research project must be developed by the candidate taking into consideration **the Topic** of the Work Package of the Project "*Sicilian MicronanoTech Research And Innovation Center – SAMOTHRACE*" indicated below:

Progetto SAMOTHRACE - WP3 Health - Advanced Micro-Nano Technologies and Devices for Health

Topic: In the context of the development of wearable sensory systems for real-time monitoring of vital parameters (e.g. blood oxygenation, blood pressure, PPG, heart rate, neuromuscular functions) and of chronic diseases with a dismetabolic imprint (e.g. diabetes), the PhD student will participate in the analysis of the data received and the evaluation of their statistical and clinical significance, collaborating in the validation of the same by verifying consistency with the anamnestic and objective information already in possession. He will also collaborate on the activities of task 3.5 related to the development of the platform dedicated to the integration of data from the various sensor devices, as well as data storage and their remote management.

3. Examination: oral test

The maximum score attributable to oral test will be **65/100 points**, with a minimum score to be exceeded by **42/100 points**.

The oral test consists of an interview aimed at verifying the preparation, the skills, the aptitude for scientific research and the motivations of the candidates; this interview is aimed at verifying the knowledge of the candidates on topics concerning the educational and methodological guidelines of the PhD course and may include, where required, the discussion of the proposed research project.

During the interview the **knowledge of the English language** will be tested.

Minimum overall assessment to be considered eligible: 60 points.

Full details of the participation procedure can be found in the PhD Call.

[Contribution of participation in the competition](#)

The payment of the participation fee for the competition must be made through the PagoPA® system, as indicated in art. 3 of this Call.

Only for candidates residing abroad, the contribution for the participation in the competition can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 BIC SWIFT CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> PhD participation Contribution in “BIOINGEGNERIA APPLICATA ALLE SCIENZE MEDICHE (Bioengineering Applied to Medical Sciences)”.

Candidates from developing countries, as defined in Ministerial Decree No. 344 of 7th April 2022 (GU serie generale No. 111 of 13th May 2022), are exempted from the payment of the above-mentioned contribution. The contribution for participation in the competition is not refundable for any reason.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Public competition, by qualifications and examinations, for assignment of no. 2 PhD scholarships funded by the Project “*Innovation Ecosystems*” – “*Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE*” - CUP J43C22000310006 – and no. 3 PhD scholarships funded by *PNRR – “ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)”* - CUP B53C22001770006, within the PhD Courses activated by the University of Messina – 38th CYCLE.

ATTACHMENT NO. 2

Title of the PhD course

PhD course in: SCIENZE VETERINARIE (VETERINARY SCIENCES)

Curriculum: Scienze cliniche veterinarie (Veterinary Clinical Sciences)

PhD Coordinator: Prof. Fazio Francesco
E-mail: francesco.fazio@unime.it

Website of the PhD course:

<https://archivio.unime.it/it/dottorato/scienze-veterinarie>

Information on the characteristics of the PhD course can be found on the page

<https://archivio.unime.it/it/ricerca/offerta-dottorati/38/111>

PHD SCHOLARSHIPS AVAILABLE FOR THE COMPETITION

PhD scholarships on PNRR obligatory Project	NO. 1 PHD SCHOLARSHIP <i>PNRR - SAMOTHRACE</i> – <i>Sicilian MicronanoTech Research And Innovation Center</i> ” - CUP J43C22000310006.
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Type of qualification required

All the Master’s Degrees

Requirements for foreign students: Master’s degrees related to the PhD program, with knowledge of the English language.

The suitability of the foreign qualification will be determined by the PhD examination Committee, only for the purpose of this selection procedure, in accordance with current regulations in force in Italy and in the Country where the qualification was issued, and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to be attached to the application for the purpose of evaluating the candidates:

1. curriculum vitae;
2. self-certification of the qualification, with date and autograph signature, indicating:
 - a) Italian University that issued the qualification,

- b) type and denomination of the Master's degree,
 - c) date of graduation,
 - d) final vote,
 - e) list of examinations with related marks and indication of CFU (credits) acquired, where required;
3. Master's degree thesis;
 4. publications;
 5. professional experiences;
 6. other qualifications in possession of the candidate;
 7. research project.

Instead of document no. 2, for candidates **not yet in possession of the required qualification (undergraduates)**:

- self-certification, with date and autograph signature, indicating:
 1. University where they are enrolled;
 2. type and denomination of the Master's Degree;
 3. list of examinations with related marks and indication of CFU (credits) acquired, where required.

For the purposes above, candidates who can make use of self-certifications, as expressly provided for in articles 46 and 47 of Presidential Decree No.445/2000 and subsequent amendments and additions, are:

- Italian and EU citizens;
- citizens of countries not belonging to the European Union, legally residing in Italy, **limited to** states, personal qualities and facts certifiable or verifiable by Italian public entities (specifically: degree obtained at an Italian University).

Candidates must attach to the procedure a scanned copy of a valid ID card [with photo].

Please note: **EU and non-EU citizens candidates, with a foreign qualification/foreign qualifications of study achieved in EU and non-EU countries, must attach the certificate of title/s of study held** (Master's degrees) from which it is deduced:

1. the duration of the study course;
2. the list of examinations with related marks (transcript of records);
3. the indication of the University which issued the qualification;
4. the date of graduation and the final vote;

with attached an official translation in Italian or English, released by the University that issued the title.

[Procedures and criteria for the selection and evaluation of the candidates](#)

1. Titles

The maximum score attributable to the qualifications will be **20/100 points**.

The evaluable titles are:

1. curriculum vitae;
2. university career (profit exams, graduation grade);
3. Master's degree thesis;
4. any publications;
5. any professional experiences.
6. other qualifications in possession of the candidate.

2. Project

The maximum score attributable to the research project will be **10/100 points**.

The research project must be developed by the candidate taking into consideration **the Topic** of the Work Package of the Project "*Sicilian MicronanoTech Research And Innovation Center – SAMOTHRACE*" indicated below:

Progetto SAMOTHRACE –WP5 Agritech - Sensors and Devices for plant health detection

Topic: As part of the project, the PhD student will be responsible for identifying the specific biochemical markers for detecting plant health, determining the toxicity and biological effect of contaminants. The study of laboratory and bioinformatics methodologies for the qualitative and quantitative analysis and characterization of the structural components, for the observation of their modifications, and for the validation of the experimental results has an important role. In this way it will be possible to implement contaminant monitoring systems and investigate their effects on plant, animal and human health, on the environment and on the economy.

Candidate profile: The candidate must possess skills in chemistry, biochemistry and molecular biology and in related disciplines.

3. Examination: oral test

The maximum score attributable to oral test will be **70/100 points**, with a minimum score to be exceeded by **42/100 points**.

The oral exam consists of an interview aimed at verifying the preparation, the skills, the aptitude for scientific research and the motivations of the candidates; this interview is aimed at verifying the knowledge of the candidates on topics concerning the educational and methodological guidelines of the PhD course and may include, where required, the discussion of the proposed research project.

During the interview the **knowledge of the English language** will be tested.

Minimum overall assessment to be considered eligible: 60/100 points.

Full details of the participation procedure can be found in the PhD Call.

[Contribution of participation in the competition](#)

The payment of the participation fee for the competition, must be made through the PagoPA® system, as indicated in art. 3 of this Call.

Only for candidates residing abroad, the contribution for the participation in the competition can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 BIC SWIFT CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: "<surname and name of the candidate> PhD participation Contribution in "SCIENZE VETERINARIE (Veterinary Sciences)".

Candidates from developing countries, as defined in Ministerial Decree No. 344 of 7th April 2022 (GU Serie Generale No. 111 of 13th May 2022), are exempted from the payment of the above-mentioned contribution. The contribution for participation in the competition is not refundable for any reason.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Public competition, by qualifications and examinations, for assignment of no. 2 PhD scholarships funded by the Project “*Innovation Ecosystems*” Project – “*Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE*” - CUP J43C22000310006 – and no. 3 PhD scholarships funded by *PNRR – “ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)”* - CUP B53C22001770006, within the PhD Courses activated by the University of Messina – 38th CYCLE.

ATTACHMENT NO. 3

Title of the PhD course

PhD course in: **MATEMATICA E SCIENZE COMPUTAZIONALI (Mathematics and Computational Sciences)**

Curriculum: Computational Sciences

PhD Coordinator: **Prof. Oliveri Francesco**
E-mail: francesco.oliveri@unime.it

Website of the PhD course:

<https://mat521.unime.it/dottorato-matscicomp/>

Information on the characteristics of the PhD course can be found on the page

<https://archivio.unime.it/it/ricerca/offerta-dottorati/38/122>

PHD SCHOLARSHIPS AVAILABLE FOR THE COMPETITION

PhD scholarships on PNRR obligatory Project	NO. 3 PHD SCHOLARSHIPS <i>PNRR – “ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)” - CUP B53C22001770006.</i>
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Type of qualification required

All the Master’s Degrees

The suitability of the foreign qualification will be determined by the PhD examination Committee, only for the purpose of this selection procedure, in accordance with current regulations in force in Italy and in the Country where the qualification was issued, and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to be attached to the application for the purpose of evaluating the candidates:

1. curriculum vitae;
2. self-certification of the qualification, with date and autograph signature, indicating:
 - a) Italian University that issued the qualification,

- b) type and denomination of the Master's Degree,
 - c) date of graduation,
 - d) final vote,
 - e) list of examinations with related marks and indication of CFU (credits) acquired, where required;
3. Master's degree thesis;
 4. publications;
 5. professional experiences;
 6. other qualifications in possession of the candidate;
 7. research project.

Instead of document no. 2, for candidates **not yet in possession of the required qualification (undergraduates)**:

- self-certification, with date and autograph signature, indicating:
 1. University where they are enrolled;
 2. type and denomination of the Master's Degree;
 3. list of examinations with related marks and indication of CFU (credits) acquired, where required.

For the purposes above, candidates who can make use of self-certifications, as expressly provided for in articles 46 and 47 of Presidential Decree No.445/2000 and subsequent amendments and additions, are:

- Italian and EU citizens;
- citizens of countries not belonging to the European Union, legally residing in Italy, **limited to** states, personal qualities and facts certifiable or verifiable by Italian public entities (specifically: degree obtained at an Italian University).

Candidates must attach to the procedure a scanned copy of a valid ID card [with photo].

Please note: **EU and non-EU citizens** candidates, **with a foreign qualification/foreign qualifications of study achieved in EU and non-EU countries**, **must attach** the certificate of **title/s of study held** (Master's degrees) from which it is deduced:

1. the duration of the study course;
2. the list of examinations with related marks (transcript of records);
3. the indication of the University which issued the qualification;
4. the date of graduation and the final vote;

with attached an official translation in Italian or English, released by the University that issued the title.

[Procedures and criteria for the selection and evaluation of the candidates](#)

1. Titles

The maximum score attributable to the qualifications will be **20/100 points**.

The evaluable titles are:

1. curriculum vitae;
2. university career (profit exams, graduation grade);
3. Master's degree thesis;
4. any publications;
5. any professional experiences.
6. other qualifications in possession of the candidate.

2. Project

The maximum score attributable to the research project will be **30/100 points**.

The research project must be developed by the candidate taking into consideration **the Topics** of the Work Packages of the Project “*PNRR ITSERR Italian Strengthening of the ESFRI RI RESILIENCE (Religious Studies Infrastructure: Tools, Innovation, Experts, Connection and Centers)*” indicated below:

Topic no. 1:

Project ITSERR (WP3, Activity 3.2.2) - Preparation of components for T-Res.

Title: Preparation of components for T-Res (Project ITSERR - WP 3, Activity 3.2.2)

Topic: Development of IT components for T-ReS. Its goal is to assist and steer the development and analysis teams in algorithmic research for GNORM, a software for the automatic analysis and categorisation of printed religious normative sources through data mining techniques and providing a 3D visualisation of the analysed sources.

Candidate profile: The candidate must have skills in mathematics and/or computer science.

Topic no. 2:

Project ITSERR (WP4, Activity 4.2.3) - Word embedding.

Title: Word embedding

Topic: Research on software tools for word embedding and platforms for standoff annotation, i.e., realization of models and techniques that allow semantic-based mapping of words in the reference corpus; in a second stage, supervision of the development activity and realisation/adaptation of software tools for word embedding and platforms for standoff annotation, with reference to the DaMSym prototype software for the automatic analysis of corpus or ancient reference texts.

Candidate profile: The candidate must have skills in mathematics and/or computer science.

Topic no. 3

Project ITSERR (WP5, Activity 5.2.4) - Extraction techniques.

Title: Extraction techniques

Topic: Validation and, possibly, supervision, of the developing/developed recognition and extraction techniques, both on samples of materials related to the platform Digital Maktaba to create multi-alphabet digital catalogues for the management of works in non-Latin alphabets, and on larger corpora, available in the literature and provided by partner institutions.

Candidate profile: The candidate must have skills in mathematics and/or computer science.

3. Examination: oral test

The maximum score attributable to oral test will be **50/100 points**, with a minimum score to be exceeded by **26/100 points**.

At the time of the admission tests, the candidate, in addition to explaining in detail to the Committee the articulation of the research project, state of the art, and the methods he/she intends to use, must demonstrate his/her basic preparation in mathematical and computational disciplines and his/her critical capacity, with particular reference to the project themes.

The oral test consists of an interview aimed at verifying the preparation, the skills, the aptitude for scientific research and the motivations of the candidates; this interview is aimed at verifying the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and may include, where required, the discussion of the proposed research project.

During the interview the **knowledge of the English language** will be tested.

Minimum overall assessment to be considered eligible: 60/100 points.

Full details of the participation procedure can be found in the PhD Call.

[Contribution of participation in the competition](#)

The payment of the participation fee for the competition must be made through the PagoPA® system, as indicated in art. 3 of this Call.

Only for candidates residing abroad, the contribution for the participation in the competition can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 BIC SWIFT

CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> PhD participation Contribution in “MATEMATICA E SCIENZE COMPUTAZIONALI (Mathematics and Computational Sciences)”.

Candidates from developing countries, as defined in Ministerial Decree No. 344 of 7th April 2022 (GU Serie Generale No. 111 of 13th May 2022), are exempted from the payment of the above-mentioned contribution. The contribution for participation in the competition is not refundable for any reason. **The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.**