





Università degli Studi di Messina

PUBLIC COMPETITION FOR THE AWARDING OF 1 RESEARCH GRANT

Published in the Academic Registry of University of Messina

on February 20th, 2019. Deadline: March 12th, 2019

THE RECTOR

the Statute of the University Autonomy, issued with the Rector's IN VIEW OF

Decree (D.R.) n. 1244 of May 14th, 2012 and subsequent amendments

and integrations;

the Decree of the President of the Republic (D.P.R). n. 445 of IN VIEW OF

December 28th, 2000 and subsequent amendments and integrations;

the Law n. 240 of December 30th, 2010 and particularly article 22 IN VIEW OF

which deals with the modalities for assignment of the Research grant of

University of Messina;

the Ministerial Decree (D.M.) n. 102 of March 9th; 2011 which IN VIEW OF

determined the gross minimum annual amount of the Research grant in

accordance with the above-mentioned law;

the Regulation of the University of Messina concerning Research grant, IN VIEW OF

issued with the Rector's Decree (D.R.) n. 2321 of October 15th, 2013;

the abstract of the minutes of the Steering Committee of Engineering IN VIEW OF Department of January 30th, 2019, register number 10033 of February

> 1st, 2019, concerning the approval of the request to activate a Research grant (tenure track position, contract type B), submitted by Professor Giuseppe Tito Aronica, for research activity entitled "Development of physical vulnerability tool for the comparative analysis of flood risk

> mitigation strategies" (Area CUN: 08 - Ingegneria Civile, S.S.D: ICAR/02 – Costruzioni Idrauliche Marittime e Idrologia) on Research Project funds entitled "Innovative tools for improving FLood risk

> reductiOn stRategIeS" (FLORIS)" managed by the aforementioned

Department in the role of Scientific Director;





IN VIEW OF the C.G. 04.43.08.03 of *Bilancio Unico d'Ateneo – Esercizio Contabile 2019 –* provides the necessary coverage in the UA.00204 for the project UCPM2018 FLORIS 826561 ARONICA;

DECREES

Art. 1

Number of Research grant

1. The University of Messina announces a comparative selection, based on titles and exams, finalized to award a fixed-term research contract type B (duration of 18 months, possibly renewable), for research activity, as it is specified in the Annex A enclosed to the present public announcement.

Art. 2

General Admission Requirements

- 1. Candidates must have the following requirements;
 - a) Possession of the qualifications specified in Annex A to this announcement;
 - b) knowledge of a foreign language (English);
- 2. The required qualifications must be possessed by expiry date of the deadline for submission of the application.
- 3. Research grants cannot be awarded to subjects who have already been holders of Research grants for a period of 6 years, in accordance with article 6, paragraph 2bis, of the D.L. 192/2014 amending law no. 240 of December 30th, 2010, excluding the period in which the grant was used to coincide with the self-financed research doctorate in the maximum limit of the legal duration of the relevant course. For the duration of the Research grants, periods spent on maternity leave or health reasons are not counted according to current legislation.
- 4. Research grants cannot be conferred on the permanent Staff of Universities, Institutions and public research and experimentation Bodies, the *Agenzia Nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile* (ENEA) and The *Agenzia spaziale italiana* (ASI), as well as the institutions whose diploma of advanced scientific study has been recognized as equivalent to the title of PhD according to article 74, paragraph 4, of the D.P.R. no. 382 of July 11st, 1980.
- 5. Research grants cannot be awarded, in accordance of point C of paragraph 1 of article 18 of Law no. 240 of December 30th, 2010 to subjects who have a degree of kinship or affinity, up to and including the fourth degree, with a professor belonging to the Department or to the Structure making the call or with the Rector, the *Direttore Generale* or a member of *Consiglio di Amministrazione* of University of Messina.
- 6. The title of the grant involves the placement on leave without financial remuneration for the employee in service with public administrations, other than those indicated in the previous paragraph.

Art. 3

Incompatibility

1. The research activity of the holders of grants is not compatible with the enrollment in Degree courses, Specialist degree or Master's degree, Ph.D courses with scholarships or





Specialization schools in medical field, in Italy or abroad, as well as with the enrollment in another school/course which, by requiring compulsory attendance, prevents the carrying out of the activities required by the contract.

- 2. The grant cannot be combined with scholarships awarded for any reason, with the exception of those awarded by national or foreign institutions useful to integrate research activity of the owners with stays abroad. The grant cannot be combined with full-time contracted employment and other Research grants or collaborative research contracts.
- 3. The assignee of research grant may carry out a limited self-employment activity, upon written communication and agreement with the responsible teacher, provided that this activity is declared compatible by the Structure in which he carries out the research activity and does not lead to conflict of interests with the research activity carried out for the University.

Art. 4

Application

1. Candidate must complete and send the application electronically for admission to the evaluation process, using the IT application accessible through a link available on the institutional website at https://istanze.unime.it, within the peremptory term of dd. 20 (twenty) from the day after the date of publication of this announcement on the University website. The aforementioned web address contains operative instructions (user manual, whose link can be found at the top right of the page containing the "List of competitions/published mobility"), to facilitate the compilation and submission of the application.

No other form of completion and submission of the application for admission to the procedure is allowed.

At the end of completing the application electronically, the application will automatically generate the request with a summary of the data entered, in pdf format, which the candidate, after careful check of the accuracy of the same, must print, sign, scan and upload onto the appropriate section.

Within the deadline for submitting applications, the IT application allows you to change the data already entered, several times if necessary, until the application is definitely confirmed. In any case, only the application with the most recent changes will be saved for each applicant.

At the end of the deadline indicated in paragraph 1 of this article, the IT application will no longer allow any access to the electronic form for filling in/sending the applications. Once the e-mail operations have been completed, the candidate will receive an e-mail with an identification number generated automatically by the application site, which will confirm the acquisition of the application. Failure to subscribe the admission request constitutes a reason for exclusion from the evaluation process.

- 2. In the application the candidate must declare, under penalty of exclusion, according to the D.P.R. no. 445 of December 28th, 2000 and subsequent amendments and additions:
 - a) name and surname;
 - b) date and place of birth;
 - c) citizenship;
 - d) residence and domicile elected for the purpose of participation in the procedure;





- e) possession of the qualification specified in Annex A to this announcement or the possession of a similar academic qualification obtained abroad, recognized as equivalent to an Italian qualification by the competent authorities. The foreign academic qualification can be declared admissible by the Examining Committee, for the sole purpose of admission to the selection. In this case the candidate must attach to the application the documents translated and legalized by the competent Italian Diplomatic or Consular Representations in the Country of origin, according to the current regulations in force. The candidate must also indicate the University that issued the degree(s), the date of the graduation and the final exam score;
- f) not to be a permanent contracted University employee, not to perform a service role with other subjects pursuant to article 22, paragraph 1, of the law no. 240 of December 30th, 2010, or to be in one of the conditions indicated above and to be aware of the provisions in the articles 2 and 3 of the announcement;
- g) not to benefit from scholarships awarded for any reason whatsoever, except those granted by national or foreign Institutions useful for integrating research activities with stays abroad; not to be admitted to paid specialization courses that require full time.
- 3. The Administration reserves the right to make appropriate checks on the veracity of the contents of the substitutive declarations; if the above check reveals the false content in the declarations, the declarant forfeits any benefits resulting from the provision issued on the basis of the false declaration.
- 4. Candidates are required to attach to the application:
 - a) curriculum of scientific activity;
 - b) a copy of a valid identification document;
 - c) the list of publications and documents attesting the titles;
 - d) publications and/or qualifications for which evaluation is required;

The enclosed publications and/or titles must be declared compliant with the originals by means of a substitutive declaration of the deed of notoriety pursuant to art. 47 of the Presidential Decree no. 445 of December 28th, 2000 and subsequent amendments and additions. Candidates can also demonstrate possession of the above-mentioned qualifications by simplifying the administrative certifications permitted by art. 46 of Presidential Decree n. 445 of December 28th, 2000 and subsequent amendments and additions (module C attached).

The documents listed above must be placed on the platform, in electronic format (the maximum size must not exceed 8 MB), in the "attachments" section (formats allowed: pdf, jpg, png. **N.B.:** documents in editable format such as doc, docx, rtf, txt, latex, etc must not be inserted under penalty of exclusion from the relative evaluation).

The same procedures provided for Italian citizens apply to citizens of other Member States of the European Union. Non-EU citizens residing in Italy, according to the provisions of the personal data regulations of the resident population approved with D.P.R. no. 223 of May 30th, 1989, may use the substitutive declarations in question limited to cases in which it is a matter of proving states, facts and personal qualities that can be certified or attested by Italian public or private.

5. Published scientific publications and documents printed within the deadline of this announcement can be evaluated for the purpose of this procedure.





6. The Administration does not take responsibility for any errors due to third parties, fortuitous event or force majeure.

Art. 5

The Examining Committee

- 1. The Examining Committee is made up of four tenured professors and/or University researchers, three permanent and one substitute, of the area concerned, one of whom, except the waiver of the same, with functions as President. The President is the scientific Director of the project for which the grant is intended. It is designated by the Council of the Structure to which the grant has been assigned and appointed by a Rectoral Decree.
- 2. Once the evaluation process has been completed, the Committee will draw up the ranking in descending order of the final score. The ranking of merit of the candidates is formed according to the order of the points of the overall vote gained by each candidate with the observance, on equal points, of the preference provided for in paragraph 8 of article 6.
- 3. The Committee shall communicate the names of the grant winners to the Director of the proposing Structure and transmit the minutes and the relative documentation to the Rector.
- 4. The communication of the evaluation results will be given by posting a special notice in the register of examinations and publication on the University website. The deadline for appeals to the Rector is 10 days from the date of publication of the results.
- 5. The Senato Accademico is responsible to deal with any disputes.

Art. 6

Comparative evaluation of the candidates

1. Comparative assessment aims to ascertain the candidate's preparation, experience and aptitude for research.

It consists:

- Evaluation of the titles presented;
- an interview concerning the discussion of the qualifications with an in-depth examination of the topics of particular scientific importance related to the research program, indicated in Annex A of this announcement.

The total score is equal to 100 points, divided as follows:

- 75 points for the evaluation of qualifications;
- 25 points for the interview.
- 2. Only candidates who have been awarded a score of at least 40 points are admitted to the interview.

The interview is considered passed with an evaluation of at least 15 points.

The final score is given by the sum of the scores attributed to the qualifications and the interview.

- 3. The types of qualifications that can be assessed are the following:
 - o Diploma of PhD or Specialization congruent with the Disciplinary Scientific Sector of the announcement (it is a preferential title), up to 30 points;
 - O Scientific-professional *curriculum* documenting experience in research activities already carried out in public/private organizations with contracts, scholarships or assignments both in Italy and abroad, up to 20 points;





- Scientific publications, up to 15 points;
- Other titles, up to 10 points;
- 4. The interview is aimed at ascertaining the candidate's ability in relation to the Scientific-Disciplinary Sector (SSD) and the research program, as well as the knowledge of the foreign language required. The interview will happen in a place accessible to the public.
- 5. The communication of the results of the qualifications evaluation as well as the list of candidates admitted to the interview will be given at the same time, before the date set for the interview, by publishing a special notice in register of the place of examination and publication on the website of the University.
- 6. The interview will take place on march 25, 2019 at 10:00 am in the meeting room of the Department of Engineering, VII Floor, Block A, located in Contrada Di Dio S. Agata, 98166 Messina.
 - Candidates must have a valid identification document to be admitted. Failure to attend the interview will be considered as a waiver of the selection. At the end of each session dedicated to the interview, the Committee will establish the list of candidates examined, with an indication of the vote presented by each one, which will be published in the register of the place of examination.
- 7. Candidates with disabilities, according to the law no. 104 of February 5th, 1992, will have to make explicit request in relation to their handicap, regarding the necessary assistance to be able to participate in the interview.
- 8. In case of equal merit, the candidate with the lowest age will prevail.

Art. 7

Awarding of the Research grant

- 1. The candidate who has obtained the best comparative assessment will receive a Research grant for the duration of eighteen months (renewable) under a fixed-term contract, subject to the checks of prescribed requirements.
- 2. At the signing of the contract, the assignee must sign a declaration that he/she is not in any of the impedimentary conditions provided in the previous articles. 2 and 3; in the event he/she is employed by public administrations, pursuant to paragraph 5 of the art. 2, he/she must also declare that he/she will be placed on leave without payment by the Administration to which he/she belongs for the entire duration of the contract.
- 3. The grant is renewable, consistent with the verification of financial coverage by the University of Messina, with the procedures set out in article 12 of the current "Regolamento di Ateneo per gli Assegni di Ricerca".
- 4. The annual gross amount of the Research grant is set at € 24,000.00, to be considered gross of expenses incurred by the University. The grant is paid in deferred monthly installments. The provisions of article 4 of the law no. 476 of August 13th ,1984 and subsequent amendments and additions; on social security matters, the provisions of art. 2, paragraph 26 et seq. of the law no. 335 of 8 August 1995 and subsequent modifications and additions are applied.





- 5. Collaboration in the research activity is carried out under conditions of autonomy, without predetermined working hours.
- 6. Holders of medical area grants may carry out assistance activities consistent with the research project, under the supervision of the scientific Coordinator and with previous authorization from the host hospital structure that will promptly notify to the concerned University Research and Research Grant Operative Unit.
- 7. The assignee may also carry out guidance and tutoring activities and be part of the University examination committees, if he/she is an expert on the subject.

Art. 8

Contract stipulation

- 1. The candidate who has had the best comparative evaluation will stipulate a contract with the University that regulates the collaboration for the research activity, according to law no. 240 of December 30th, 2010.
- 2. For the purpose of awarding the grant, the provisions of article 18, paragraph 1, letter c, of the law no. 240 of December 30th, 2010, are applied.
- 3. If, within 20 days from the communication, the candidate has not completed the signing of the contract, the same conditions will be applied to the signing of the contract with the candidate who immediately follows in the ranking.
- 4. When in the course of the collaboration for the research activity, for any reason (resignation, waiver, incompatibility, etc.), the impossibility of continuing the collaboration occurs, the candidate that is next on the ranking list will be offered a contract, upon explicit request of the project scientific Coordinator, approved by resolution of the Structure concerned and provided that at least one year is remaining for the completion of the collaboration.
- 5. If there is no other candidate in the ranking, upon explicit request of the scientific Coordinator, approved by resolution of the Structure concerned, an announcement will be published for the awarding of the Research grant for collaboration with the residual time (at least one year) only for once.
- 6. The contract does not entitle the holder to access academic positions.

Art. 9

Evaluation of the activity carried out

The assignee is obliged to present a detailed report on the activity carried out to the Council of the Structure concerned, accompanied by the judgment of the scientific Coordinator, at least thirty days before the completion date of each year of activity. The Council of the concerned Structure will express its opinion on the matter and transmit the relevant minutes to the *Unità Operativa Assegni e Borse di Ricerca* by the end of the year of activity.

Art 10

Processing of personal data

1. Pursuant to article 13, paragraph 1, of *Decreto Legislativo* no. 196 of June 30th, 2003, and subsequent amendments and additions, the personal data provided by the candidates will





be collected at the University of Messina and processed for the purposes of managing the selection and the established working relationship.

2. The same information may only be disclosed to the public administrations directly concerned with the legal-economic situation of the assignee.

Art. 11 Final rules

This decree will be published by posting it on the Academic Registry of University of Messina, it will also be made public on the University's internet sites (http://www.unime.it/it/ricerca/assegni-di-ricerca), the MIUR site (http://bandi.miur.it) and the European Union (http://ec.europa.eu/euraxess/).

For anything not provided for in this announcement, please refer to the rules contained in the Regulations, and to the current regulations in force.

Disclaimer:

The official and legally binding announcement is the Italian one available at http://www.unime.it/it/ricerca/assegni-di-ricerca. This translation cannot be used for legal purposes and is only meant to provide information in English on the public competition for selection procedures. Changes and integrations in English will be published at http://www.unime.it/it/ricerca/assegni-di-ricerca.

The Rector (Prof. Salvatore Cuzzocrea)





Renewable: YES

ANNEX A

Title of Research Project in English:

Duration of assignment: 18 months

Development of physical vulnerability tool for the comparative analysis of flood risk mitigation strategies.

mitigation strategies.
Principal research fields: □ Agrarian Science □ Anthropology □ Architecture □ Arts □ Astronomy □ Biological Sciences □ Chemistry □ Science of Communication □ Computer Science □ Criminology □ Social Studies □ Demography □ Economics □ Education ☑ Engineering □ Environmental Science □ Ethics of Health Sciences □ Ethics of Natural Sciences □ Ethics of Physical Sciences □ Ethics of Social Sciences □ Geography □ History □ Information Technology □ Juridical Science □ Linguistics □ Literature □ Mathematics □ Medical Science □ Neuroscience □ Pharmaceutical Science □ Philosophy □ Physics □ Political Science □ Psychology □ Religious Studies □ Technology □ Other
Area CUN: 08 – Civil Engineering
S.S.D: ICAR/02 Hydrological and Maritime Constructions
Brief Description in Italian: (maximum 1000 characters with spaces included)
Brief Description in English: (maximum 1000 characters with spaces included) The aim of the proposed research will be the development of innovative modelling for cascading effects of flood hazard to improve flood risk management actions with a specific interest on studying the functional vulnerability of critical infrastructures to reduce disruptive impacts during and after flood events. Main objectives are: 1- To define the discrete damage states to be studied for flooding with specific attention to the functionality and transitability of the potentially vulnerable infrastructures. 2- To define the benchmark characteristics of various classes of flooding vulnerable infrastructures. 3- To derive scale vulnerability functions for the definition of infrastructures efficiency thresholds, both for population and Civil Protection rescuers usability.
Scientific Project Director: Professor Giuseppe Tito Aronica
Number of positions: 1





Location: Engineering Department, Contrada Di Dio, 98166 Messina

Degree requested: "Laurea Magistrale" (second cycle Master's Degree) or 5 years Single Cycle degree in Civil Engineering "Laurea Quinquennale in Ingegneria Civile", or in the case of foreign aplicants, a Master's Degree in Civil Engineering.

Interview topics:

Flood risk management
Flood propagation modelling,
Flood vulnerability and damage evaluation
Pluvial flooding

International mobility requested: YES □ NO ☑	
Countries where the research can be conducted:	
Recipients of the research grant:	
☐ researcher at the beginning of career (0-4 years) (postgraduate deg	gree)
☑expert researcher (4-10 years) (Post-Doc)	
□ highly experienced researcher (> 10 years)	





ANNEX B

The application must be written using a typewriter or/that is legible in block letters.

Al Magnifico Rettore dell'Università degli Studi di Messina Piazza S. Pugliatti, n.1 98122 – Messina

	E EVALUATION P A FIXED-TERM R		,		,
	ACTIVITIES				
DISCIPLINARY	OF SCIENTIFIC AREA ENTIFICO DISCIPLI				
The undersigned above.	d requests admissio	n to the	comparativ	e evaluation proc	edure described
SURNAME					
NAME					
FISCAL CODE					
DATE AND PLA	ACE OF BIRTH				
REGION/PROV	TINCE				-
COUNTRY					
GENDER					
CURRENTLY R	RESIDENT IN (CITY	7):			
REGION/PROV	TINCE				
ADDDEGG					





This project has received funding from the EUROPEAN COMMISSION - under the 2018 Call Prevention and Preparedness in Civil Protection (Project number: UCPM-2018-PP-AG - 826561)

POSTAL COL	DE	
TELEPHONE	PREFIX	NUMBER
MOBILE		E- MAIL
(Certified elect	tronic mail address PEC)_	
development of	-	nctions in the case of untruthful declarations, of ments, as referred to in article 76 of D.P.R. 445 cendments and additions
		DECLARES
	to elect the following dor procedure (if different fro	e above; e all communications to the PEC address above micile to which direct communications relating to the om residence) are to be sent di eleggere il seguent indirizzare le comunicazioni relative alla procedur
CITY		
REGION/PRO	VINCE	
ADDRESS		
POSTAL COL	DE	
TELEPHONE	: PREFIX	
NUMBER		
☐ to be an Ital	ian citizen;	
	to be citizen of	lge of the Italian language;





	to be in possession of the following qualification specified in Annex "A" to the
	necessary notice for the procedure in question:
	achieved on
	At
	With the following mark:
	not to be a permanent employee in the Universities, not to perform a service
	role with the other subjects referred to article 22 of law no. 240 of December
	30 th , 2010 nor with other public administrations□;
	or
	to be in one or more of the conditions indicated above and to be aware of the
	provisions of article 2 of the announcement;
	not to take advantage of scholarship awarded for any reason, except those
	granted by national or foreign institutions useful for integrating, with mobility
	abroad, research activity, not to be admitted to full-time specialization
	or
	to be in one or more of the aforementioned condition and to be aware of the
	provisions of article 3 of this announcement.
For the purp	oses of the assessment of qualifications, he/she issues declarations in the Annex
"C" which is	an integral part of Annex "B" - facsimile of the application.
The undersig	gned expresses his/her consent for the personal data provided to be processed, in
compliance v	with the Decreto Legislativo n. 196 of June 30th, 2003, for the obligations related
to this proced	dure.
Place and da	te
	The Declarant





ANNEX C

SUBSTITUTIVE DECLARATION OF CERTIFICATIONS (article 46 of the D.P.R. no. 445 of December 28th, 2000 and subsequent amendments and additions)

SUSTITUTIVE DECLARATIONS FOR THE NOTARY DEED' (articles 19 and 47 of the D.P.R. no. 445 of December 28th, 2000 and subsequent amendments and additions)

I, the undersigned

SURNAME
NAME
FISCAL CODE
BORN IN
DATE OF BIRTH
GENDER_
PLACE OF BIRTH
COUNTRY/PROVINCE
CURRENTLY RESIDENT IN
COUNTRY/PROVINCE
ADDRESS
POSTAL CODE
TELEPHONE: PREFIX
NUMBER

To be aware of the penal sanctions, in the case of untruthful declarations, of training or use of false documents, referred to article 76 of D.P.R. no. 445 of December 28th, 2000 and subsequent amendments and additions





DECLARE	
I undersigned declare to be informed, pursuant to and for 1, of del <i>Decreto Legislativo</i> no. 196 del June 30 th , 200 additions, that the prsonal data collected will be prexclusively within the purpose of the procedure for which	3, and subsequent amendments and cocessed, including with IT tools
Place and date	The Declarant

Pursuant to article 38, D.P.R. no. 445 of December 28th, 2000 and subsequent amendments and additions, the declaration is signed by the interested party in the presence of the designated administrative employee or signed and sent, together with the unauthenticated photocopy of a document of identity of the declarant, to the competent office by fax, by a representative, or by post.