

**Roma Tre**

CALL FOR EXPRESSIONS OF INTEREST FOR RESEARCH ASSIGNMENTS PURSUANT TO ART. 22-TER OF LAW 240/2010 WITHIN THE SCOPE OF THE RESEARCH PROJECT ENTITLED

Development of quantitative methods for system risk and resilience modelling FUNDED BY

THE PUBLIC NOTICE Progetto Europeo MSC- DN: REUNATECH - Project 101225914 ISSUED

BY EUROPEAN RESEARCH EXECUTIVE AGENCY (REA) CUP CODE F83C24002700006

THE ENGLISH LANGUAGE TRANSLATION OF THE CALL DOES NOT HAVE LEGAL VALUE IN ITSELF, THEREFORE DOES NOT SUPERSEDE THE ITALIAN VERSION OF THE CALL (AVVISO).

DEPARTMENT OF Ingegneria Civile, Informatica e delle Tecnologie Aeronautiche

Art. 1 – Subject of the call

The Department of Ingegneria Civile, Informatica e delle Tecnologie Aeronautiche of Roma Tre University, to which the Scientific Director and tutor Prof. Fabrizio Paolacci belongs, as leader/partner of the project funded under Public Notice Progetto Europeo MSC- DN: REUNATECH - Project 101225914 issued by EUROPEAN RESEARCH EXECUTIVE AGENCY (REA) entitled Development of quantitative methods for system risk and resilience modelling CUP CODE: F83C24002700006, intends to award n. **1 research assignment(s)** lasting **36** Months, pursuant to Art. 22-ter of Law 240/2010 to young scholars who meet the requirements set out in Art. 3 and who wish to apply by expressing their interest, in accordance with the procedures specified below.

Art. 2 – Remuneration

The gross annual amount for the assignment (as specified in Art. 4 below) shall be paid in monthly instalments. In the event of definitive termination of the research activity, the monthly instalment shall be paid on a pro rata basis until the legal effective date of termination of the assignment.

Art. 3 – Eligibility Requirements

There are no age or citizenship restrictions for participation in the call. The following requirements must be met, under penalty of exclusion:

1) a master's degree obtained from an Italian university no more than six years prior to the date of publication of this announcement, in the following master's degree classes: LM23.

- OR a degree obtained abroad; in this case, unless it has been previously recognized in Italy, a declaration of equivalence to an Italian degree will be required for the sole purpose of participating in the competition. To this end, the application form must be accompanied by the documents necessary to allow the Department Council to declare the equivalence of the foreign degree:

- a) a copy of the foreign qualification certificate, listing the examinations taken;
- b) Italian or English translation of the certificate (if the translation is not certified in accordance with

current regulations, attach a self-declaration stating that the translation is a true copy of the original).

- 2) a scientific and professional curriculum vitae demonstrating suitability for assisting in the research activities described in Article 4.

Art. 4 – Job Description

TITLE OF THE RESEARCH ASSIGNMENT	
<i>Development of quantitative methods for system risk and resilience modelling</i>	
SCIENTIFIC DISCIPLINARY GROUP	
-	08/CEAR-07
DURATION	
36	
GROSS ANNUAL AMOUNT	
44.083,41	
RESEARCH ACTIVITY	
Develop complete system dynamics modelling for infrastructure components, identifying initial interdependencies, with a focus on process and energy industries. Integrate multiple temporal scales to examine compound and cascading events affecting infrastructure, targeting external disruptions (e.g. natural hazards, social crises), and internal disruptions (e.g. technical failures) Develop modelling theories, quantitative methods and methodology as part of the disruption analysis and impact assessment affecting safety and security. Apply the methodology to an industrial system under NaTech scenario to assess and quantify risk and resilience. KPIs include identifying and quantifying new time-dependent risk sources and reducing risk. Contribute to the implementation of dynamic modelling for infrastructure components and their dependency. Participate in training activities, workshops, summer schools, and international conferences organized within the REUNATECH project. Disseminate research results through scientific publications and presentations. As the job descriptions cannot be exhaustive, the Researcher may be required to undertake other duties, which are broadly in line with the above duties and responsibilities	

Art. 5 – How to participate

Expressions of interest, drawn up on the attached forms, must be sent by certified email no later than **the tenth day** following the date of publication of this notice to the following certified email address: **ricerca.icita@ateneo.uniroma3.it**

APPLICATIONS RECEIVED AFTER THE DEADLINE WILL NOT BE ACCEPTED.

The expression of interest, drawn up on the attached form and signed by the candidate, must clearly and precisely indicate, under their own responsibility:

1. personal details, date and place of birth, nationality, residence and personal contacts;
2. the reference number and title of the position for which they intend to apply;
3. their degree, indicating the date of graduation, the university that awarded it and the grade obtained;
4. that they are not enrolled in any bachelor's, master's or doctoral degree programs or medical specialization courses in Italy or abroad, except for specific European Union research funding programs within the framework of the Marie Skłodowska-Curie Actions (MSCA);
5. that they have not benefited from researcher contracts (RTT, RTDA and RTDB) referred to in Article 24 of Law 240/2010;
6. that, in the event of being awarded, they don't exceed with the contract referred to in this notice:
 - the overall limit on the duration of research assignments as provided for in Article 22-ter of Law 240/2010, equal to 36 months (except as provided for in Article 3 of the University Regulations for the awarding of research assignments);
 - the overall limits on the use of such positions referred to in paragraph 9 of Article 22-ter of Law 240/2010;
7. that at the time of submitting the application, they are not holding a research grant or research contract referred to in Article 22 of Law 240/2010, nor a research contract (RTT, RTDA and RTDB) referred to in Article 24 of Law 240/2010;
8. that they are not permanent employees of universities, public research bodies or institutions whose advanced scientific qualification has been recognized as equivalent to a PhD;
9. that they are not related or related by marriage, up to and including the fourth degree, to a professor belonging to the Department where the assignment will be carried out or to the Rector, the Director General or a member of the University's Board of Directors.

Candidates must attach the following to their expression of interest:

- **copy of ID card;**
- **detailed scientific and professional CV**, signed and with authorization to process data, demonstrating suitability to assist in the research activity;

- **self-certification of their degree**, using the attached form and indicating the title of their thesis and the grade obtained in their final examination;
- (if applicable) **a cover letter**;
- (if applicable) a list of publications and any other qualifications that the candidate considers useful for the Commission's assessment.

Art. 6 – Evaluation

On the recommendation of the scientific director of the research project, who acts as tutor, the research assignment is awarded directly to the candidate deemed suitable for carrying out the required activity. The evaluation concludes with the preparation of the director's decree approving the documents, which identifies the assignee of the assignment. The decision to award the assignment is published on the University's official notice board and on the Department's website.

Art. 7 – Awarding of contract

Once the decree referred to in Article 6 has been obtained, indicating the candidate or candidates who are eligible for the research position, the Director of Department shall proceed to appoint the candidate by signing the relevant contract.

In the event of withdrawal or late acceptance by those entitled, the next candidate in the ranking order will take their place, if available. The research assistant's work must be ongoing or, in any case, defined in terms of time, coordinated with the overall activities of the Department and closely linked to the implementation of the research program or a phase thereof, while being carried out independently without predetermined working hours.

The acceptance or continuation by the research fellow of paid positions (other than employment with public administrations, for which unpaid leave is mandatory) is subject to prior authorization by the Department Council, after consultation with the tutor, who shall declare its compatibility with the performance of the activities related to the position. Throughout the period in which they work at the University, research fellows are covered by insurance against any accidents arising from the activities carried out in the course of their work as research fellows. The research fellowship does not give rise to any rights regarding access to University positions.

Art. 8 – Report

The research activities carried out and the scientific results obtained within the scope of a research assignment are evaluated by the tutor in a specific report, as provided for in Art. 12 of the University Regulations for the awarding of research assignments.

Art. 9 – Renewal

Any renewal of the research assignment is decided by the Department Council on the recommendation of the tutor, based on the activities carried out by the holder of the assignment.

Art. 10 – Processing of personal data

Pursuant to Regulation (EU) 2016/679 (GDPR) and current national legislation on the protection of personal data, we inform you that the data collected will be processed exclusively for purposes related to the management of this procedure. The data controller is Roma Tre University – Via Ostiense, 133 – 00154 Rome. The Data Protection Officer (DPO) can be contacted at the following e-mail address: dpo@uniroma3.it.

Art. 11 – Sole Person Responsible for the Procedure (RUP)

Pursuant to Law No. 241 of 7 August 1990, the Person Responsible for the Procedure is Dr. Mihaela Ilie, Research Secretary of the Department of Ingegneria Civile, Informatica e delle Tecnologie Aeronautiche.

Art. 12 – Final Dispositions

For anything not specified in this call for applications, reference should be made to the relevant regulations in force. The University Regulations for the awarding of research positions are available at <https://www.uniroma3.it/ateneo/statuto-e-regolamenti/regolamenti/regolamenti-in-materia-di-ricerca/>.

The Director of the department Prof.

Stefano Carrese



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