



UNIVERSITÀ DEGLI STUDI DELL'AQUILA

AMMINISTRAZIONE CENTRALE
AREA GESTIONE DELLE RISORSE UMANE
SETTORE CONCORSI E SELEZIONI

D.R. Rep. n. 331 – 2019 Prot. n. 17917 del 30.04.2019 – Allegati: 7
Anno 2019 – tit. VII cl. 1 fasc. 23

THE RECTOR

Having regard to Italian Law 168, 9 May 1989 establishing the Ministry of Higher Education, Scientific Research and Technology;

Having regard to Italian Law n. 240, 30 December 2010, “Norms regarding the organization of Universities, academic personnel and recruitment, as well as mandating the Government to provide incentives for quality and efficiency of the University system”, and in particular Art. 24, Art. 22, paragraph 9, and Art. 29, paragraph 5;

Having regard to Italian Law n. 241, 7 August 1990, as amended and supplemented, concerning administrative procedures and the right to access administrative documents;

Having regard to Law n. 183, 12 November 2011 (*Legge di Stabilità 2012*) and in particular Art. 15 regarding certifications and declarations;

Having regard to Italian Law n. 106, 15 April, 2004 and Presidential Decree n. 252, 3 May 2006, containing norms relating to depositing documents of cultural interest for public use;

Having regard to Law n. 232, 11 December 2016 (*Legge di Stabilità 2017*);

Having regard to Law n. 205, 27 December 2017 (*Legge di Stabilità 2018*);

Having regard to Law n. 145, 30 December 2018 concerning the “Estimated budget for the financial year 2019 and the multiannual budget for the three-year period 2019-2021;

Having regard to Leg. Decree n. 165, 30 March 2001, as amended and supplemented, in particular Articles 35, 35bis, 36, 37, 38 and 57;

Having regard to Presidential Decree 445, 28 December 2000, containing regulations concerning administrative documentation (*Testo Unico*);

Having regard to Leg. Decree n. 196, 30 June 2003 and Leg. Decree n. 101, 10 August 2018, implementing UE Regulation n. 679/2016 regarding personal data protection;

Having regard to Leg. Decree n. 82/2005 “Digital Administration Code”, as amended and supplemented;

Having regard to Leg. Decree n. 198, 11 April 2006, “Equal Opportunities for Men and Women”;

Having regard to Leg. Decree n. 49, 29 March 2012 for disciplining the programming, monitoring and assessment of budget management and recruiting policies adopted by universities;

Having regard to Leg. Decree n. 5, 09 February 2012 converted into Law n. 35, 04 April 2012, “Urgent Dispositions as to Simplification and Development”;

Having regard to Presidential Decree n. 62, 16 April 2013, “Civil Servants’ Behaviour Code”

Having regard to Leg. Decree n. 33, 14 March 2013, “Restructuring the sphere of advertising, transparency and dissemination of information by Public Administrations”, as amended and supplemented;

Having regard to Ministerial Decree n. 243, 25 May 2011, concerning criteria and parameters for preliminary assessment of public selection candidates, recipients of contracts as indicated in Art. 24, paragraph 2, letter c) of Italian Law n. 240, 30 December 2010;

Having regard to Ministerial Decree n. 159, 12 June 2012, on the determination of competition areas, grouped into competition macro-areas;

Having regard to Ministerial Decree n. 855, 30 October 2015, redetermining macro-sectors and competition sectors;

Having regard to the Statute of the University of L’Aquila, established by the Rector’s Decree n. 36-2017, 20 February 2017, entered into force as of 9 March, 2017;

Unità Organizzativa Responsabile: Settore Concorsi e Selezioni – e-mail: conc@strutture.univaq.it

Responsabile: Dott.ssa Dorian Scarsella – tel: 0862.432089 – fax 0862.431295

Per eventuali informazioni rivolgersi a: Tommasa Ruscitti – Loredana Taccone – Giuseppina Persia (operatrici incaricate) – tel: 0862.432097 – 2023



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Having regard to the University of L'Aquila's Code of Ethics established by the Rector's Decree n. 1154-2011, 29 July 2011;

Having regard to the University of L'Aquila's Code of Behaviour established by the Rector's Decree n. 210-2014, 3 March 2014;

Having regard to the University's Regulations as to recruitment of fixed-term university Researchers established by Rector's Decree n. 621-2012, 05 April 2012 as modified by Rector's Decree n. 860-2013, 05 June 2013, by Rector's Decree n. 1490-2015, 29 October 2015, and lastly by Rector's Decree n. 225-2019, 1 April 2019;

Having regard to the University's Regulations as to assignation of teaching duties to professors and researchers established by Rector's Decree n. 915-2017, 19 December 2017;

Having regard to the resolutions by the University Academic Bodies concerning staff planning and distribution of resources for recruiting First and Second Tier Professors and Researchers;

Having regard to MIUR Directorial Decree 407/2018 dated February 27th, 2018 approving the Announcement "A.I.M. - Attrazione e Mobilità Internazionale" to weigh on Programma Operativo Nazionale (PON) Ricerca e Innovazione 2014-2020, Line "Investimenti in capitale umano" aimed at favouring mobility and attraction of Researchers at university level in the various Departments, within **Line 2** (Attraction of Researchers);

Having regard to note Prot. n. 2550 dated February 13th, 2019, received with Prot. n. 6085 dated February 14th, 2019 by which MIUR forwarded the Directorial Decree n. 3407 dated December 21st, 2018 approving the project proposals' ranking submitted in relation to the call for proposals "Aim – Attrazione e Mobilità Internazionale" as per Directorial Decree 407/2018 and informing, among other things, that *"according to the order of the ranking list [...] qualified for financing those lines of research which achieved a minimum score of 89 out of a total possible 100. According to Resolution C of the EU Commission n. (2018) 8840 dated December 12th, 2018 approving the reprogramming of PON R&I 2014-2020, in fact only such proposals are immediately eligible for financing, for a total amount of € 88.497.419,22 as per attachment B of the ranking list approval decree [...]. Those Universities included in the above-mentioned attachment B must comply with art. 3 of the Implementing Regulations and undertake activities aiming at promptly realizing single actions, anyhow within 6 months from the date the proposal was approved, and conclude them within the following 42 months"*;

Having regard to Ministerial Decree n. 204 dated March 8th, 2019 relating to the 2019 Special Plan for recruiting Researchers under Art. 24, Paragraph 3, Letter a) of Law 240/2010 by which State Universities have been assigned specific resources to launch such contracts;

Having regard to the resolution of the **Department of Physical and Chemical Sciences** n. 2 dated 20th February, 2019 – forwarded with note n. 291 dated March 21st 2019 and received the same date with Prot. n. 7377 - concerning the request of a selection procedure to recruit **2** fixed-term, full-time Researchers in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010 for the following fields:

1. Academic Recruitment Field 03/C1 – Organic Chemistry, Academic Discipline CHIM/06 - Organic Chemistry;
2. Academic Recruitment Field 03/B2 – Principles of Chemistry for Applied Technologies, Academic Discipline CHIM/07 – Principles of Chemistry for Applied Technologies;

Having regard to the resolution of the **Department of Biotechnological and Applied Clinical Sciences** n. 2 dated 14th February, 2019 received with Prot. n. 7558 dated February 22nd, 2019 concerning the request of a selection procedure to recruit **1** fixed-term, full-time Researcher in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010 for the following field:

1. Academic Recruitment Field 06/N1 – Technology and Methodology in Medicine and Nursing Sciences, Academic Discipline MED/46 – Biotechnology and Methods in Laboratory Medicine;



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Having regard to the resolution of the **Department of Human Studies** n. 3 dated 20th March, 2019 – forwarded with note n. 921 dated 21st, March, 2019 and received the same date with Prot. n. 12049 - concerning the request of a selection procedure to recruit **1** fixed-term, full-time Researcher in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010 for the following field:

1. Academic Recruitment Field 01/A1 – Mathematical Logic, Mathematics Education and History of Mathematics, Academic Discipline MAT/04 – Mathematics Education and History of Mathematics;

Having regard to the resolution of the **Department of Civil, Construction-Architectural and Environmental Engineering** n. 71 dated 20th March, 2019 – forwarded with note n. 754 dated March 21st 2019 and received the same date with Prot. n. 12142 - concerning the request of a selection procedure to recruit **1** fixed-term, full-time Researcher in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010 in relation to the proposal submitted by:

Research and Teaching Centre for Earthquake Engineering (CERFIS):

1. Academic Recruitment Field 08/B3 – Structural Engineering, Academic Discipline ICAR/09 – Structural Engineering ;

Having regard to the resolution of the **Department of Information Engineering, Computer Science and Mathematics** n. 2 dated 20th March, 2019 – forwarded with notes n. 1166, 1167, 1169, 1170 and 1171 dated March 22nd 2019 and received the same date with Prot. n. 12481, 12483, 12486, 12487 and 12490 respectively - concerning the request of a selection procedure to recruit **2** fixed-term, full-time Researchers in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010 in relation to the proposals submitted by:

Department of Information Engineering, Computer Science and Mathematics, for the following field:

1. Academic Recruitment Field 09/F2 – Telecommunications, Academic Discipline ING-INF/03 - Telecommunications;

Design Methodologies for Embedded Controllers, Wireless Interconnect and Systems-on-chip (DEWES), for the following field:

1. Academic Recruitment Field 01/A6 – Operations Research, Academic Discipline MAT/09 - Operations Research;

Having regard to the resolution n. 83 issued by the Board of Directors on March 27th, 2019 authorizing the above mentioned public selection procedure;

Having verified that the expense to reward each Researcher for the three-year period will be fully financed by the funds of the Projects financed by PON Ricerca e Innovazione 2014-2020 according to the call for proposals “Attrazione e Mobilità dei Ricercatori” Attrazione dei Ricercatori, Avviso AIM – Attrazione e Mobilità Internazionale, MIUR Directorial Decree 407/2018, MIUR Directorial Decree 3407/2018, attachment B and MIUR Directorial Decree 3395 dated December 21st, 2018 – CA. 04.01.01.02.01;

DECREES THE FOLLOWING:

Art. 1 – Public Selection and objective of the contract

A public selection procedure is being held at the University of L'Aquila to recruit **n. 7 fixed-term (3 year) full-time Researchers** in compliance with Art. 24, Par. 3, Letter a) of Italian Law 240/2010, at various Departments, within the framework of **Line 2**, Attraction of Researchers, specified as follows:

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	CENTRE/DEPARTMENT	Academic Field Recruitment	Academic Discipline	Line
1	Department of Physical and Chemical Sciences	03/C1 – Organic Chemistry	CHIM/06 – Organic Chemistry	2
2	Department of Physical and Chemical Sciences	03/B2 – Principles of Chemistry for Applied Technologies	CHIM/07 – Principles of Chemistry for Applied Technologies	2
3	Department of Biotechnological and Applied Clinical Sciences	06/N1 – Technology and Methodology in Medicine and Nursing Sciences	MED/46 – Biotechnology and Methods in Laboratory Medicine	2
4	Department of Human Studies	01/A1 - Mathematical Logic, Mathematics Education and History of Mathematics	MAT/04 - Mathematics Education and History of Mathematics	2
5	CERFIS – Department of Civil, Construction-Architectural and Environmental Engineering	08/B3 – Structural Engineering	ICAR/09 – Structural Engineering	2
6	Department of Information Engineering, Computer Science and Mathematics	09/F2 – Telecommunications	ING-INF/03 – Telecommunications	2
7	DEWS – Department of Information Engineering, Computer Science and Mathematics	01/A6 – Operations Research	MAT/09 – Operations Research	2

Attachments 1 through 7 form integral part of this selection announcement, indicating according to the Department's resolutions, research and teaching activities object of the contract, maximum number of publications, further qualifications and assessment criteria of the candidates.

For the description of the subjects of the Academic Recruitment Fields indicated in this selection announcement reference has to be made to Ministerial Decree n. 159 June 12th 2012 and to Ministerial Decree n. 855 October 30th, 2015.

Art. 2 – Admission Requisites and Causes for Exclusion

1. The selection procedure is open to Italian, EU and non EU citizens holding an Italian residency permit as per Leg. Decree 165, March 30, 2001, Art. 38 and possessing a **Ph.D., or an equivalent degree obtained in Italy or abroad, having discussed their Ph.D. dissertation as of 27.02.2010.**

Admission requisites must be held by applicants within the deadline for application submission.

If obtained abroad, the Ph.D. must be accompanied by the official declaration of equivalency issued by the relevant authorities of the foreign country. If the candidate is not in possess of such a documentation within the deadline for application submission, to be submitted anyhow within the date of official appointment, he/she shall submit a copy of the application for obtaining such a declaration.

Candidates shall also be in possess of the following **further qualification:**

to be working, within the date of publication of the present announcement, at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions (that is, out of the following regions: Basilicata, Calabria, Campania, Puglia, Sicilia, Abruzzo, Molise, Sardegna) or even abroad, with an experience of at least two years in those bodies, referable to: 2.1) both participation in, or technical-scientific coordination of, programmes and/or research projects; 2.2) and direct management (or support) in preparation, organization, monitoring and evaluation phases of research programmes/projects.



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2. The following categories may not participate in this public selection procedure:
 - a) First or second tier university professors or Researchers already holding an open-ended contract or who have held such positions in the past either, even if terminated;
 - b) Individuals who have already held fixed-term research contracts as provided in Arts. 22 and 24 of Italian Law 240/2010 at the University of L'Aquila or at other Italian Universities, whether public, private or online, or bodies under paragraph 1 of Art. 22 of Italian Law 240/2010 for a period, in addition to the intended duration of the competition contract, exceeding a total of 12 years, even if not continuing. Maternity or sick leave as provided in the laws in force shall not be included in the duration of the aforementioned employment contracts;
 - c) Individuals not entitled to exercise civil and political rights;
 - d) Individuals who have been dismissed or relieved from office with a Public Administration for consistently poor performance or have been dismissed from a civil service job as provided in Art. 127, Letter d) of Presidential Decree 10/1/1957, No. 3.
 - e) Individuals who are married, or under condition of civil partnership or common-law marriage pursuant to Italian Law n. 76, 20 May 2016, or related, up to the fourth degree, to professors belonging to the recruiting Department including the Rector, General Director, any member of the Board of Trustees.
3. The contract outlined for this selection procedure cannot be accumulated with other research grants as per Italian Law 449/1997 Art. 51 and Italian Law 240/2010 Art. 22.
4. Candidates are granted provisional admission, as the University Administration reserves the right to review applications and to exclude for just cause at any time until the end of the procedure. In this case a decree shall be issued by the Rector and the excluded candidate shall be notified by the Administration.

Art. 3 - Application Submission Procedure and Deadline

1. To participate in the selection, candidates must submit their application **within 30 days from the day following publication of the announcement in the Gazzetta Ufficiale della Repubblica Italiana – 4° Serie speciale – Concorsi ed Esami**. The publication of the selection announcement is also posted in the University, Ministry and EU websites.
2. If the deadline should fall on a holiday, the following weekday shall be considered the deadline for submission.
3. The application for the selection procedure as well as qualifications, documents and publications are to be submitted telematically, on pain of exclusion, using the computer application available at <https://pica.cineca.it/univaq>. The computer application necessarily requires that the candidate has an e-mail account in order to register. Candidates must enter all data required to fill in application and attach all documents in .pdf format. The application form must be filled in all its parts according to the instructions given by the telematic procedure. **No other ways of presenting applications or documents for the procedure are allowed, except for the case described in Art. 5, paragraph 2 of this announcement.**

Within the deadline for application the system allows to save a draft of the application. The date of telematic submission of the application shall be certified by a receipt sent automatically by the system. **After the deadline for submission the system shall no longer allow to access and send the electronic form.**

An identification number shall be assigned to each application which, along with the selection procedure code indicated in the computer application, shall be quoted in any further notice.

For any technical problems candidates may contact technical support at: univaq@cineca.it.

The application submission shall be perfected and concluded in the following ways:

1. **By digital signature** using smart card, USB token or remote signature which allow the owner to sign general documents by means of a signature software or a Remote Signature web portal made available by the Auditor. Those who have a Digital Signature smart card or USB token shall verify that they are

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compatible with the Digital Signature system integrated in the system server. If so, the owner may sign the application directly in the system server (e.g. ConFirma);

2. **Those who do not have compatible digital signature devices and the Remote Digital Signature Owners** who may access a web portal for signing general documents shall save in their own PC the .pdf file generated by the system and, without modifying it, digitally sign it in CAdES format. A .p7m file will be generated, which shall be uploaded again to the system. Any editing to the file before signing with the Digital Signature shall interfere with the automatic check of correspondence between the content of such a document and the original, and this will bring to the application exclusion;
3. **If none of the above-mentioned options can be used** candidates shall save in their own PC the .pdf file generated by the system and, without modifying it, print and sign it with full original signature in the last page of the printed document. A scanned .pdf copy of such a document shall be produced and the file thus obtained shall be uploaded to the system.
4. All applications are subject to verification, in any case the following shall be cause for exclusion:
 - omission of signature, in accordance with laws and regulations;
 - not including a copy of a valid identification document.Applications deemed as lacking the required elements specified in the selection announcement or not in compliance with what specified in this article shall be excluded by Rector's Decree and candidates shall be notified of the said exclusion by registered post with notice of receipt or by certified e-mail (PEC).
5. In his/her application the candidate is required to declare the following:
 - 1) Surname and name;
 - 2) Date and place of birth;
 - 3) Fiscal code;
 - 4) Residency;
 - 5) Citizenship;
 - 6) The selection procedure they want to participate in;
 - 7) That he/she has the following requisites for participation as indicated in Art. 2 of this announcement;
 - 8) That he/she is in possession of his/her civil and political rights
- a) **Italian candidates** shall also state on their own account:
 - Which electoral college they are registered in (municipality) and any reasons for lack of registration or deletion;
 - Their current situation with regard to military service;
- b) **Foreign candidates** shall also state on their own account:
 - That they are in possession of their civil and political rights in their country or, supply the reasons for lack thereof;
- 9) That they have not been convicted of a crime nor are they aware of being subject to criminal proceedings or of any pending criminal proceedings against them;
- 10) That they have not been dismissed or relieved from office with a Public Administration for consistently poor performance, or that they have not been dismissed from a civil service job as provided in Art. 127, Letter d) of D.P.R. January 10 1957, n. 3;
- 11) That they are not married, or under condition of civil partnership or common-law marriage pursuant to Italian Law n. 76, 20 May 2016, or related, up to the fourth degree, to professors belonging to the recruiting Department including the Rector, General Director, any member of the Board of Trustees;
- 12) That they do not have a position as first or second tier university professors or as open-ended contract Researchers, and have not held such positions in the past either, even if terminated;
- 13) That they have not already held fixed-term research contracts as provided in Arts. 22 and 24 of Italian Law 240/10 at the University of L'Aquila or at other Italian Universities, whether public, private or online, bodies under Par. 1 of Art. 22 of Italian law 240/10 for a period, in addition to the intended duration of the competition contract, exceeding a total of 12 years, even if not continuing.
- 14) **if not an Italian citizen**, that he/she has an adequate knowledge of the Italian language;

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- 15) that he/she is aware that the Examining Board shall be nominated by Rector's Decree published on the University's Albo Ufficiale and posted on the relevant page of the university website www.univaq.it;
 - 16) that he/she is aware that a list of candidates admitted to the selection procedure is published on the University's Albo Ufficiale and posted on the relevant page of the University website www.univaq.it, in all effects representing official notice to the candidates participating;
 - 17) that he/she is aware that the assessment procedure adopted by the Examining Board in the first session and the interview dates are published for at least seven days on the University's Albo Ufficiale and posted on the relevant page of the university website www.univaq.it, in all effects representing official notice to the candidates participating;
 - 18) that he/she is aware that all documents related to the selection procedure together with decree of approval are published on the University's Albo Ufficiale and posted on the relevant page of the university website www.univaq.it, in all effects representing official notice to the candidates participating.
6. In their applications, candidates must include their selected mailing address for notifications, a telephone number, a mobile number and an e-mail address. Any changes in the above information must immediately be notified to the Settore Concorsi e Selezioni Office – Palazzo Camponeschi – Piazza Santa Margherita, 2 - 67100 L'Aquila, e-mail: conc@strutture.univaq.it.
In compliance with Law 104/1992, candidates with disabilities must apply for any necessary aid.
7. All declarations made by candidates are to be considered in compliance with Presidential Decree n. 445, 28 December 2000 as amended and supplemented.
Non-EU citizens with a regular residence permit may use the Personal Declarations of Certification in accordance with the procedure laid down for EU citizens whenever it is necessary to provide proof of status, facts or personal qualities certifiable or confirmable by Italian public agencies or if the production of self-executed certificates takes place under international agreements between Italy and the applicant's country of origin.
8. The Administration shall carry out a verification process on the contents of declarations, any false declarations shall lead to the candidate losing any benefits obtained thanks to said declarations and are subject to related laws.
9. The University Administration declines all responsibility for un-received notifications due to the candidate's failure in providing a correct address or not notifying the University in due time of any change in the address given in the application or for any postal or telegraphic services, misdeliveries, or due to third parties, unforeseeable events or force majeure.
10. **Candidates shall not be able to modify their applications after the indicated deadline; applications deemed as lacking the required elements specified in Art. 2 of the selection announcement, or the declarations specified in Paragraph 6. of this article, or under one of the causes of exclusion specified in Paragraph 5, shall be excluded by Rector's Decree and candidates shall be notified of the said exclusion.**

Art. 4 – Required Application Attachments

Candidates must also attach the following to their applications:

- a) A photocopy of a valid identity document;
- b) A photocopy of their fiscal code (codice fiscale);
- c) A Curriculum Vitae listing their scientific and teaching activities, written in Italian and in English;
- d) A list of qualifications;
- e) A copy of qualifications (**only for those which cannot be presented with a personal declaration of certification**) complete with a certification of authenticity and certified Italian translation if written in a language other than English;
- f) A numbered list of publications;

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- g) A list of the candidate's teaching experience indicating the University/Body, the period and the subject taught;
- h) Publications not exceeding the number indicated in the announcement;
- i) A copy of residency permit (non EU citizens).

All qualification certificates issued by Italian Public Administration Authorities must only be self-certified as pursuant to Italian Law 183/2011.

Non EU Citizens with a regular Italian residence permit may submit original or scanned copies of qualifications, authenticated or certified copies of the original.

Art. 5 – Publications

1. Publications presented must be submitted only in .pdf format in the dedicated section of the telematic procedure at <https://pica.cineca.it/univaq>.
2. **Each publication shall not exceed the limit of 30 megabyte.**

Those publications exceeding the limit of 30 megabyte shall be indicated in a numbered list to be entered in the online platform and uploaded in .pdf format to a digital medium (USB, CD, DVD) to be posted within the application deadline by registered mail, express post or package or service with notice of receipt to the following address: Settore Concorsi e Selezioni – Via Giovanni Di Vincenzo, 16/B – 67100 L'Aquila. The date when the envelope was accepted by the post office or express service company shall be taken into consideration. Any applications whose publications (exceeding the 30 megabyte) shall be excluded that, though posted within the deadline under comma 1 of Article 3 of this selection announcement, do not arrive at the University Administration within the fifth day after the designated deadline. In the latter case the date of arrival at the University shall be taken into consideration. The University Administration declines all responsibility for any non-deliveries or misdeliveries of the publications, or other problems due to third parties, unforeseeable events or force majeure. The candidate must indicate on the envelope containing the publications: the University issuing the selection procedure, the requesting Department, the academic recruitment field, academic discipline, position being applied for, name, surname, mailing address for all selection procedure related notifications.

If the maximum number of publications indicated in Art. 1 of this selection procedure is not observed, the system shall not allow to complete the application procedure.

Candidates cannot make references to other publications/documents presented previously to the University of L'Aquila or to any other administration/institution.

3. Once the selection procedure is completed, the selected candidate shall submit the publications presented, in original or in copy certified conform to the original.
4. Works published in Italy will be assessed if they comply with legal standards and are pursuant to Leg. Decree n. 660/1945 as amended by Italian Law 106/2004 and Presidential Decree n. 252/2006. This requires certification to be provided with the application or a personal declaration pursuant to Presidential Decree n. 445/2000; for works published abroad the date and place of publication must be indicated.
5. Publications written in a foreign language must be accompanied by a certified Italian translation by official translator or consulate/embassy. The translation process is not required for publications written in French, English, German and Spanish.

Art. 6 - Renouncing Participation

Candidates wishing to renounce participation in the selection procedure are required to write to the Rector to declare their intentions, including in their letter a photocopy of a valid identity document, to the following address: Settore Concorsi e Selezioni – Palazzo Camponeschi – Piazza S. Margherita 2 – 67100 L'Aquila, e-mail: conc@strutture.univaq.it. Their renouncement shall be made official during the first meeting following receipt of renouncement.

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Art. 7 - Nomination of the Examining Board

1. The Board, made up of three members of which at least two tenured professors and two from other universities, named by the Department and connected with the academic recruitment field or the academic discipline concerning the position object of the public selection procedure, is appointed by a Rector's Decree. One member must be chosen among high profile experts from a university or research center in another OECD country.

The designated professors must be registered in the lists of those members who can be called by drawing for the National Scientific Qualification Boards or anyhow they must satisfy the criteria provided for by ANVUR, resolution n. 132, 13 September 2016.

Unless documented reasons exist, at least one third of the board members is to be reserved to women.

2. The following cannot be nominated:

- Professors who have received a negative assessment as provided in Art. 6, Paragraph 7 of Italian Law 240/2010;
- Members of the University political board, those who hold a political office as well as representatives of trade unions or professional associations;
- Individuals condemned for crimes – even if not yet sentenced – in Book II of the Italian Penal Code (“crimes by civil servants against public administration”);

3. The Rector's Decree appointing the Examining Board shall be published on the University's Albo Ufficiale and on the University website.

4. From the date the Rector's Decree nominating the examining board is published candidates have 10 days – in analogy with the University Regulations for appointing I and II Tier Professors - to state their opposition to any of the components of the board. After this period no instances may be presented.

5. The Board nominates a President and a Secretary.

6. The Board operates with the presence of all its members and takes decisions unanimously.

7. Participation in all Board activities is mandatory for all members.

8. The Board, upon notifying the head of the selection procedure of the date and time, may hold meetings using telematic technology. At the end of the meeting the minutes must be drawn up, approved, and signed by the Secretary who has actually drawn them up. The other members of the Examining Board underwrite a statement in which they declare that they have joined the meeting and undersigned the minutes, and then forward them telematically to the competent administration office. Where applicable, reference has to be made to the University's Regulations (Rector's Decree n. 467/2016, April 18th, 2016).

9. Expenses incurred may be reimbursed in accordance with the University's Regulations pursuant to Art. 7, Paragraph 4 in reference to the recruitment of fixed-term Researchers.

Art. 8 - Role and Duties of the Examining Board

1. In the first session the Board, having determined that in compliance with related laws, no incompatibility factors are present, outlines the preliminary assessment criteria and procedures for selection in compliance with the parameters indicated in Ministerial Decree n. 243, 25 May 2011, and the criteria and specific functions to be carried out by the Researcher indicated by the Department and stated in Art. 1 of this selection procedure.

The Board also establishes an analytical system to confer points to candidates after preliminary assessment has been completed. The Board then establishes which candidates are admitted to the interview, together with the criteria for testing their English language skills, and Italian language skills for foreign applicants.

2. The Head of the selection procedure is immediately notified of the above-mentioned results which are to be published on the University's Albo Ufficiale and on the website for at least 7 days before the Board can move on to the next phase of the selection procedure.

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Responsabile: Dott.ssa Dorian Scarsella – tel: 0862.432089 – fax 0862.431295

Per eventuali informazioni rivolgersi a: Tommasa Ruscitti – Loredana Taccone – Giuseppina Persia (operatrici incaricate) – tel: 0862.432097 – 2023

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3. The above mentioned preliminary procedure initially involves determining if the candidates possess the requisites for participation, then their CVs and publications, including their Ph.D. thesis, are assessed.
4. Following preliminary assessment, the Board will admit the most worthy candidates - 10 to 20 per cent of the original candidates – and no less than six in number - to participate in a public discussion of their qualifications and scientific work; all candidates shall be admitted to the discussion should their total number be equal to or less than six.
5. The list of candidates is drawn up by the Board and published along with the analytical judgements concerning the preliminary assessment, the date, place and time of the interview and foreign language test on the University's Albo Ufficiale and on the website at least 10 days before the interview. **This is to be considered an official notification for candidates. Candidates are required to appear for their interviews on the indicated date with a valid identity document. It is important to remember that candidates are not notified individually but only through the above stated notifications published online. If the candidate does not show up, this shall be considered final renunciation to the selection procedure.**
6. Following the interviews, the Board grades the candidate's qualifications, attributes a grade to each publication and assesses interview and foreign language skills. Once this has been completed the Board draws up a ranking of the candidates and deliberates (by majority) the winner of the selection procedure.
7. All proceedings are contained in the minutes of the meetings, including all the assessment results obtained during the preliminary meeting, grading of qualifications and publications, and interview to test English language skills. The results of all of the above are published on the University's Albo Ufficiale and on the website **which to all effects represents an official notification for the participants in the selection.**

Art. 9 - Time Limits of the Selection Procedure

1. The Board is to conclude all necessary actions within four months from the Rector's Decree nominating its members.
2. The Rector may extend the deadline only once and for no more than two months only in the case of exceptional and documented reasons brought forth by the President of the Board before the established deadline expires.
3. If all procedures are not concluded even within the extended deadline the Rector shall proceed to the substitution of the Board members, who become liable for the delays caused, establishing a new deadline for completion of the selection procedure.

Art. 10 - Determining Validity of Proceedings

Within thirty days after the proceedings are consigned, the Rector issues a Decree establishing their validity, which is published on the University's Albo Ufficiale and on the website. **This, to all effects, represents official notification** and from that date candidates have a period of time to file a complaint. The candidate selected shall also be notified.

The Decree is immediately passed on to the relevant Body in charge of the appointment, as pursuant to the following Art. 11.

If the Rector finds any irregularities in the proceedings he/she may make a motivated request to the Board to obtain rectification.



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Art. 11 - Appointment by the Department

Within 60 days of the Rector's approval of the proceedings the Department Council that had requested the selection procedure must unanimously adhere to the decision and decide on a date to officially appoint the new Researcher, to this end the Council must keep in mind the time needed to stipulate the contract. The Department's deliberation must also be approved by the University's Board of Directors, after which the Researcher is invited to present all necessary documents for contract stipulation within 30 days.

Art. 12 - Drawing-up of contract

1. A fixed-term full-time employment contract shall be drawn up and underwritten by the Rector and by the Researcher. The contract is for three years and, where indicated in the relevant attachments to this procedure announcement, it implies carrying out a period from 6 to 15 months of further *work experience* in one or more Italian (wherever located in the national territory) or European public institutions based on: - participation in technical-scientific activities related to research projects/programmes; or - management of procedures concerning preparation, organization, monitoring and evaluation phases of research programmes/projects management.

2. All elements regarding fixed-term researcher contracts specified in Art. 10 of the University's Regulations must be indicated within said contract.

The number of hours required for teaching, integrated activities and services to the students is 350 hrs per year. Research activity is the subject of a specific scientific report to be submitted yearly to the Department's approval.

Given that the contract shall be pursuant to Leg. Decree n. 165/2001 Art. 53, it is important to state that it cannot be accumulated with other employment contracts, research grants, Ph.D. or Specialization courses, nor with any other earnings or grants from the University.

As regards the Researcher's duties, the main duties established by law in reference to the category shall be applied.

The Researcher appointed will be required to abide by the University's Code of Behaviour, not doing so shall lead to termination of contract. The Researcher shall also abide by norms regarding security, as established in Leg. Decree n. 81/2008 and also contact the Health and Safety Service Office of the University to gather information on prevention measures to abide by while carrying out research.

3. The position is subject to all laws regarding termination.

Art. 13 - Salary and Social Security Benefits

To the Researcher shall be accorded a gross annual salary in compliance with Presidential Decree n. 232 dated December 15th, 2011, in relation to his/her full-time commitment, and with MIUR Directorial Decree 3395 dated December 21st, 2018.

Art. 14 - Documents for Contract Stipulation

The Researcher selected shall present all required documents together with all declarations certifying their requisites for appointment as pursuant to Presidential Decree 445/2000 art. 46 and 47 to the University's Settore Personale Docente e Ricercatori Office as specified in Art. 3, Paragraph 5, numbers 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13 in this announcement. The Researcher shall also present a personal declaration of certification regarding their marital status, household members, whether they belong to legally protected categories, whether they receive a pension, whether they are members of professional registers; they must also declare that they are not employed in any other public or private company or institution as pursuant to Presidential Decree 445/2000, Art. 46 and 47.

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If the Researcher is already employed by a public institution he/she must ask for a leave of absence from their job to accept the Researcher contract they have been selected for.

Before starting work the Researcher must undergo a medical check-up to obtain a certificate from the University doctor stating that their health allows them to carry out the job duties required, the Researcher can contact the Settore Personale Docente e Ricercatori Office to make an appointment with the doctor.

The University reserves the right to carry out sample checks to verify the information and certification presented.

Art. 15 - Personal Data

The handling of candidates' personal information is disciplined by Leg. Decree n. 196, 30 June, 2003, by Leg. Decree n. 101, 10 August 2018 implementing UE Regulation n. 679/2016. Personal information supplied by the candidates in the application shall be collected by the offices of the University and processed for the purposes of the procedure and for the management of relations ensuing therefrom.

The provision of said information is compulsory, on pain of exclusion.

Candidates are entitled to exercise the rights provided in the Legislative Decree mentioned above, including the right of access to the data concerning them, the right to amend, update, complete or delete erroneous or incomplete data or data collected in a manner that is contrary to law, and to object to processing for legitimate reasons.

Art. 16 – Disclosure

This decree is made available to the public on the University website (<http://www.univaq.it>), on the Ministry of Education, University and Research website, and on the European Union website.

Art. 17 - Reference to Implementation Modalities

For all matters not contained in this announcement, the resolutions, laws and regulations indicated in the introduction together with all laws regulating recruitment of University staff shall apply.

Art. 18 - Head of the Selection Procedure

Pursuant to Art. 5 of Italian Law n. 241, 7 August, 1990, dr. Doriana Scarsella, Head of the Settore Concorsi e Selezione Office of the University of L'Aquila, is also head of this selection procedure.

L'Aquila, April 30th, 2019

The Rector
(signed:) Prof.ssa Paola Inverardi

Published in the Gazzetta Ufficiale n. 34 on April 30th, 2019

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Deadline: May 30th, 2019

Date of publication in the University's Albo Ufficiale: April 30th, 2019

This document conforms to the original document, it is produced for publication on the University website in the modality requested so that it can be useable by application softwares as provided by the law regarding accessibility. The original document with original signatures is available at the office responsible of the procedure.



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ATTACHMENT 1

Project AIM1842894
Spending centre: Department of Physical and Chemical Sciences
Activity n. 1
SNSI main specialization area: Green Chemistry
Type of announcement: line 2.1
Academic Recruitment Field: 03/C1– Organic Chemistry
Academic Discipline: CHIM/06 – Organic Chemistry
Place of work: Department of Physical and Chemical Sciences, University of L'Aquila, Via Vetoio – 67100 L'Aquila
Admission requisites: (line 2.1) A Ph.D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years after obtaining the Ph.D. (even cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects
Research activities: Research activities shall be carried out within the project AIM1842894, financed by the call for proposals “Attraction and Mobility of Researchers” (D.D. 407 dated 27.02.2018). The activity is aimed at developing innovative processes by means of catalysis advancement of minting metals and innovative organocatalytic systems for an effective and low environmental impact catalysis
Teaching activities, integrated teaching activities and services to the students: The total number of hours required is 350 hrs per year, of which 60 hrs of class teaching of the academic discipline described in the announcement.
Maximum number of publications: 12 (twelve).
Foreign language requisite: English
Assessment criteria: <ol style="list-style-type: none">1. Relevance of the candidate's overall scientific production;2. Organization of, or participation in, as a speaker in scientific conferences in Italy or abroad;3. Direction of national and international scientific research projects or groups, or participation in;4. Coordination of studies and scientific researches entrusted by qualified public or private institutions;5. Scientific coordination of national and international scientific research projects funded by peer review-based competitive calls;6. Direction of, or participation in, the scientific committees of highly regarded journals, series, encyclopaedias and treatises;7. Prizes and awards received for his/her scientific activity, included affiliation to highly regarded societies of the relevant field;8. Results achieved in the field of technology transfer in terms of contribution to the development of new enterprises (spin off), patents' development, employment and marketing;9. Specific professional experiences or research activities of the candidate within the relevant academic discipline;

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10. Having obtained National Scientific Qualification or analogous qualification.



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ATTACHMENT 2

Project AIM1842894
Spending centre: Department of Physical and Chemical Sciences
Activity n. 3
SNSI main specialization area: Energy
Type of announcement: line 2.1
Academic Recruitment Field: 03/B2 – Principles of Chemistry for Applied Technologies
Academic Discipline: CHIM/07 – Principles of Chemistry for Applied Technologies
Place of work: Department of Physical and Chemical Sciences
Admission requisites (line 2.1): A Ph. D. or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years (even previous, cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects.
Mobility requisites: Foreign institutions where to eventually carry out work experience: 6 months at the “Biophysics and Photosynthesis” group coordinated by Prof. Holger Dau, Freie Universitaet, Berlin, Germany
Research activities: Molecular modelling of photosynthesis and advanced materials for solar energy. The research of materials able to catalyze water oxidation employing plenty and inexpensive metals has recently developed thanks to the use of mainly amorphous cobalt, nickel, manganese and iron oxides. Such composites shall be studied by means of computational methods of molecular dynamics and electronic structure in order to understand formation and catalysis mechanisms. This research activity shall be carried out in close collaboration with Prof. Holger Dau, Freie Universitaet, Berlin, who experimentally characterizes them. In order to deeply understand the catalytic strategies of the analogous natural complex Photosystem II, research shall also focus on the study of Kok catalytic cycle with special emphasis on the last intermediate states (from state S3 to state S0). The Researcher shall also study light activated organic compound modelling for applications in Dye Sensitized Solar Cells (DSSC).
Teaching activities, integrated teaching activities and services to the students: The total number of hours required is 350 hrs per year, of which 60 hrs of class teachnig of the academic discipline CHIM/07.
Maximum number of publications: 12 (twelve).
Foreign language requisite: English
Assessment criteria: Relevance of the candidate’s previous activity to the molecular modelling of biosystems and catalysts, with special emphasis on systems involved in natural and/or artificial Photosynthesis. Originality, innovation, rigorous methodology and relevance of the publications submitted. Scientific relevance of editorial classification of publications and their diffusion within the scientific community. Analytic determination of the candidate’s individual contribution in co-authored publications on the basis of criteria acknowledged by the relevant international scientific community.

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ATTACHMENT 3

Project AIM1855453
Spending centre: Department of Biotechnological and Applied Clinical Sciences
Activity n. 2 “Innovative drugs for tumor target therapy: to block NF – kB inhibiting effectors of its tumourigenic functions”.
SNSI main specialization area : Health
Type of announcement: line 2.1
ACADEMIC RECRUITMENT FIELD: 06/N1 – Technology and Methodology in Medicine and Nursing Sciences
ACADEMIC DISCIPLINE: MED/46 – Biotechnology and Methods in Laboratory Medicine
Place of work: Department of Biotechnological and Applied Clinical Sciences
Admission requisites: (line 2.1) A Ph.D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years (even previous, cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects.
Research activities: The research activities to be carried out described in the project AIM1855453 - Activity n. 2, focus on the study of NF-kB-dependent genes, deregulated in tumor cells, with pro-survival (Gadd45b) and cell metabolism modulation (CES1) activity, aiming at: 1- validating a new “target therapy” strategy: selective inhibition of the Gadd45b/MKK7 interaction as a new possible molecular therapy personalized for solid and haematologic incurable tumors; 2- studying CES1 as a new therapeutic target in order to stop the tumor metabolic adaptation in vitro and in vivo.
Teaching activities, integrated teaching activities and services to the students: The total number of hours required is 350 hrs per year, of which 60 hrs of class teachnig of the academic discipline described in the announcement. This commitment refers only to the academic years of consecutive presence at the university and will be proportionally reduced to the months spent abroad.
Maximum number of publications: 12 (twelve) The candidate’s Ph.D. thesis, in compliance with Ministerial Decree 243/2011, is to be considered a publication and included among the publications submitted.
Foreign language requisite: English
Assessment criteria: With due regard to criteria and parameters indicated in Ministerial Decree n. 243, 25 May 2011, the Examining Board will consider the high quality of the candidate’s scientific production, documented by publication in international journals. Documented research experience in the Academic Discipline MED/46 carried out in Italian and foreign research institutions shall also be considered. Moreover, in assessing the candidate’s CV, qualifications and publications in the field of the research activities described above shall be considered particularly qualifying.



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ATTACHMENT 4

Project AIM1849353 – 3
Spending centre: Department of Human Studies
Activity n. 3
SNSI main specialization area : Smart, Secure and Inclusive Communities
Type of announcement: line 2.1
ACADEMIC RECRUITMENT FIELD: 01/A1 - Mathematical Logic, Mathematics Education and History of Mathematics
ACADEMIC DISCIPLINE: MAT/04 - Mathematics Education and History of Mathematics
Place of work: University of L'Aquila - Department of Human Studies
Admission requisites: (line 2.1) A Ph.D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years (even previous, cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects.
Mobility requisites: (line 2) Italian or foreign (EU) institutions where to eventually carry out work experience abroad (6 - 15 months: specify): NOT REQUIRED
Research activities: The objective of the project, with reference to the SNSI requirements, is to implement a training programme for teachers aiming at developing the awareness of the potentials of large scale computerized Math evaluation tests (in particular, the INVALSI, TIMMS, and PISA tests) for class teaching practice. The final target is to favour the growth and diffusion of ICT technologies within teaching practices and to build a community of teachers who share experiences also thanks to the support of digital technologies. In particular, computerized evaluation tools are intended as a means of improving the quality of evaluation and teaching-learning processes. The objective of the project is therefore to train, at different levels of the school system, reference figures for the evaluation having the necessary skills to read, analyze and use large scale evaluation computerized data integrating them in the evaluation processes implemented in schools for the realization of Improvement Plans. This target can be achieved by building a community of Math teachers as communities of inquiry through a blended training course and therefore by integrating several formats and teaching typologies (in presence and online). In particular, exploiting the availability of large scale online shared platforms and small group meetings in presence. In this light, situations occur in which exchanges of experiences take place where large scale test materials can be used. In particular, the theoretical frames of reference of standardized tests allow to build a connection between the targets and objectives of national guidelines for the curriculum and the single test queries and therefore a link between the requests included in the intended curriculum and how they can be subject of reflection by the teachers who are in charge of developing the intended curriculum.

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Therefore, good analysis skills of the data returned by the national and international Standardized Evaluation Institutions are required for the purposes of the selection. Such skills shall be made explicit by having participated or collaborated in building tests; in codifying the collected results; in processing and analyzing data returned and in employing them for training on and off duty teachers. The skill to submit proposals of theoretical and conceptual methods allowing to use standardized evaluation as an effective means of reflection and work in order to improve class practices and research in Mathematics Education is required. In particular, the skill to develop researches involving new technologies for carrying out standardized Math tests is required. The main objective is to highlight differences and analogies in the tests carried out in paper and in digital format aiming at proposing to the teachers different possible ways of actions for using the queries and the data published in both environments. It is therefore required to consider computerized evaluation tools as a possibility to improve the quality of evaluation and of teaching-learning processes. In order to accomplish this, the candidate shall prove to have developed, in his/her Ph.D. course or in specific scientific publications, some theoretical tools allowing to study students' behaviours coping with a test carried out in different environments.

Experience in organizing scientific and cultural events and the ability to deal with collective scientific publications are also required.

Teaching activities, integrated teaching activities and services to the students: Teaching activities to be carried out shall be in the courses of the academic discipline MAT/04 of the Bachelor's Level and Master's Level Degrees of the Department, first of all Mathematics Education and Fundamentals. A good knowledge of Mathematics Education shall be required, with special focus on national and international main theoretical constructs, in particular those related to standardized evaluation and how to use methods, conceptual and operational tools and the results of such evaluations in training perspective and on duty teachers. Moreover, the candidate shall have a real class teaching experience to be reflected in a clear awareness of Math teaching issues in primary schools, and more generally of the main issues known at national school system level. He/she shall finally be able to propose and investigate adequate methods of analysis, operational proposals and technical tools also by means of new technologies. Experience in training on and off duty teachers shall also be required.

The total number of hours required is 350 hrs per year, of which 60 hrs of class teaching of the academic discipline described in the announcement. This commitment refers only to the academic years of consecutive presence at the university and will be proportionally reduced to the months spent abroad.

Maximum number of publications: 12 (twelve)

Foreign language requisite: English

Assessment criteria: the Examining Board will assess the candidate's scientific publications and overall CV according to the following criteria:

- a) original and innovative scientific production as well as rigorous methodology;
- b) personal contribution of the candidate in co-authored publications;
- c) consistency of the candidate's activity with the subjects included in the academic recruitment field object of the selection procedure with particular reference to the consistency with the profile indicated by the Department;
- d) scientific relevance of editorial classification of the publications and their diffusion within the national and international scientific community;
- e) temporal continuity of scientific production also in relation to the evolution of knowledge in the specific academic field.

The following qualifications will anyhow specifically considered in the comparative assessment:

- a) positions held in Italian and foreign universities and/or research institutions;
- b) teaching qualification in primary schools and class experience;



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- c) research activities carried out in Italian and foreign public/private bodies;
- d) Ph.D. and other research grants;
- e) participation in national and international research projects;
- f) participation in cultural associations' activities;
- g) collaboration in the organization of scientific events;
- h) training experience of teachers;
- i) experience in designing, analyzing and codifying Math standardized tests;
- j) development of Math standardized test analysis in digital environment and comparative studies of paper, pen and computer environments.



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ATTACHMENT 5

Project AIM18CC183
Spending centre: Research and Teaching Centre for Earthquake Engineering (CERFIS)
Activity n. 2
SNSI main specialization area : Cultural Heritage
Type of announcement: line 2.1
Months abroad: 0
ACADEMIC RECRUITMENT FIELD: 08/B3 – Structural Engineering
ACADEMIC DISCIPLINE: ICAR/09 – Structural Engineering
Department responsible for carrying out the selection procedure: Department of Civil, Construction-Architectural and Environmental Engineering - DICEAA
Place of work: Research and Teaching Centre for Earthquake Engineering (CERFIS)
Centre of reference: Department of Civil, Construction-Architectural and Environmental Engineering – DICEAA
Admission requisites: A Ph.D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010.
Research activities: The research activities to be carried out by the Researcher, in compliance with art. 24, par. 3, letter a) of Law 240/2010, will take place mainly at the Department DICEAA, in its Material and Structure Testing Laboratory, and at the Research and Teaching Centre for Earthquake Engineering (CERFIS), where for years numerical, experimental and theoretical investigations have been carried out in the field of Structural Engineering. In particular, the Researcher's activities shall focus on the application of innovative technologies for preservation and restoration of Italian cultural and environmental heritage. In the first phase of the research a new mortar characterized by good tensile and compression capacity shall be developed. Mechanical characterization tests shall be then carried out on the mortar only first, and then on a series of samples of masonry (reproduced in laboratory or in situ testing) reinforced with the same mortar (diagonal compression test). The experimental results shall be then compared with those obtained by analytical predictions carried out by means of numerical methods.
Teaching activities, integrated teaching activities and services to the students: The total number of hours required is 350 hrs per year. This commitment refers only to the academic years of consecutive presence at the university and will be proportionally reduced to the months spent abroad
Maximum number of publications: Candidates are required to submit a maximum of 12 publications congruent with the research project. The candidate's Ph.D. thesis, in compliance with Ministerial Decree 243/2011, is to be considered a publication and included among the publications submitted.
Foreign language requisite: English
Assessment criteria: With due regard to criteria and parameters indicated in Ministerial Decree n. 243, 25 May 2011, the Examining Board shall assess: the candidate's overall profile and scientific maturity; his/her individual contribution to the publications submitted; participation in financed research projects, and consistency with the scientific commitment required.

Unità Organizzativa Responsabile: Settore Concorsi e Selezioni – e-mail: conc@strutture.univaq.it

Responsabile: Dott.ssa Dorian Scarsella – tel: 0862.432089 – fax 0862.431295

Per eventuali informazioni rivolgersi a: Tommasa Ruscitti – Loredana Taccone – Giuseppina Persia (operatrici incaricate) – tel: 0862.432097 – 2023

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ATTACHMENT 6

Project AIM1877124
Spending centre: DISIM Department
Activity n. 1
SNSI main specialization area : Smart, Secure and Inclusive Communities
Type of announcement: line 2.1
ACADEMIC RECRUITMENT FIELD: 09/F2 – Telecommunications
ACADEMIC DISCIPLINE: ING-INF/03 – Telecommunications
Department responsible for carrying out the selection procedure
Place of work: University of L'Aquila
Department of reference: DISIM Department
Admission requisites: (line 2.1) A Ph.D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years (even previous, cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects
Mobility requisites: (line 2) Italian or foreign (EU) institutions where to eventually carry out work experience abroad (6 - 15 months: specify): KTH, Stockholm, Sweden
Research activities: The objective of this research is to be placed within the framework of automation on URLLC channels. A feature of URLLC systems used for vehicle automation systems and industrial processes is the close interaction between the requirements of the TLC side and the control one. A control system can bear an even distribution of probability of data loss from sensors but the loss of consecutive packages can be seriously critical for the stability. This suggests that assessing the probability of loss of packages is not sufficient to characterize the performance of such systems. Resilience is the ability to make up for the effects of a communication loss by means of redundant resources in space and time. Research activities focus on innovative methods to analyze and optimize URLLC network performance combined with control systems focusing on end-to-end reliability metrics, resilience on the TLC side and stability of control system. The final target is the development of an URLLC architecture based on wireless channel communication technologies, already existing or to be standardized (e.g. Bluetooth, Wi-Fi, LTE and 5G). The issue involves the development of methodologies based on rare event simulation through Markov Chains and Monte Carlo methods in order to validate the probability of loss of communications lower than 10 ⁻⁷ . The projects aims at considering cross-layer end-to-end interactions among different levels of the protocol layers by optimizing the system behaviour in terms of traffic generation, routing and access protocols to the radio channel, for different types of network, characteristics of the physical channel and control requirements.
Teaching activities, integrated teaching activities and services to the students: The Researcher shall

Unità Organizzativa Responsabile: Settore Concorsi e Selezioni – e-mail: conc@strutture.univaq.it

Responsabile: Dott.ssa Dorian Scarsella – tel: 0862.432089 – fax 0862.431295

Per eventuali informazioni rivolgersi a: Tommasa Ruscitti – Loredana Taccone – Giuseppina Persia (operatrici incaricate) – tel: 0862.432097 – 2023

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carry out teaching activities within the courses related to the Academic Discipline ING– INF/03 offered by the DISIM Department. He/she shall also teach courses in English. He/she shall also be required to support students and tutor ICT Ph.D. students. The total number of hours required is 350 hrs per year, of which 60 hrs of class teaching of the academic discipline described in the announcement. This commitment refers only to the academic years of consecutive presence at the university and will be proportionally reduced to the months spent abroad.

Maximum number of publications: 12 (twelve).

Foreign language requisite: English

Assessment criteria: With due regard to criteria and parameters indicated in Ministerial Decree n. 243, 25 May 2011, the Examining Board will consider the high quality of the candidate's scientific production, documented by publication in highly-regarded international journals and conferences. Documented research experience in the Academic Discipline ING– INF/03 carried out in Italian and foreign research institutions shall also be considered. Moreover, in assessing the candidate's CV, qualifications and publications in the field of the research activities described above shall be considered particularly qualifying.



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ATTACHMENT 7

Project: AIM1825157 Optimization and Control Models for Industry 4.0 - IoT infrastructure
Spending centre: DEWS (Department or Centre)
Activity n. 2
SNSI main specialization area : Smart factory
Type of announcement: line 2.1
ACADEMIC RECRUITMENT FIELD: 01/A6 – Operations Research
ACADEMIC DISCIPLINE: MAT/09 - Operations Research
Department responsible for carrying out the selection procedure: DISIM
Place of work: DISIM
Centre of reference: DEWS Centre of Excellence
Admission requisites: (line 2.1) A Ph. D., or an equivalent degree obtained in Italy or abroad, relating to the academic discipline of the position described and obtained not before 27/02/2010. Working position at the date of the present announcement (certified by a legally valid act, i.e.: contract) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad. Minimum work experience of two years (even previous, cumulative and certified by one or more contracts) at universities/research institutions/companies out of the PON R&I 2014-2020 target Regions or even abroad, concerning participation in, or technical-scientific management of, research programmes and/or projects
Mobility requisites: (line 2) Italian or foreign (EU) institutions where to eventually carry out work experience abroad (6 - 15 months: specify): presently not specifiable
Research activities: Optimization models and methods (combinatorial, mixed integer and/or non-linear) with industrial applications and robustness requirements of the solution to unpredictable variations of the input or resources availability. The objectives and the tools developed imply interaction with the Researcher of the area of Systems and Control Engineering, envisaged in the same Activity n. 2
Teaching activities, integrated teaching activities and services to the students: The total number of hours required is 350 hrs per year, of which 60 hrs of class teaching of the academic discipline described in the announcement. This commitment refers only to the academic years of consecutive presence at the university and will be proportionally reduced to the months spent abroad. Support in courses related to MAT/09 or INF/01
Maximum number of publications: 12 (twelve)
Foreign language requisite: English
Assessment criteria: the Examining Board shall assess the candidate considering his/her academic CV and the scientific quality of the activity carried out, documented by publications in international journals and conference proceedings.