



D.R. Rep. n. 1042 – 2024 Prot. n. 113420 del 31.07.2024 All. 5
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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 196, 30 June 2003 and Leg. Decree n. 101, 10 August 2018, implementing the UE Regulation n. 679/2016 regarding personal data protection;

Having regard to Leg. Decree n. 82, 7 March 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. 639, 2 May 2024, redetermining Scientific Disciplinary Groups and Academic Disciplines;

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;

Having regard to the University of L’Aquila’s Code of Ethics/Behaviour established by the Rector’s Decree n. 734-2020, 27 July 2020;

Having regard to the University of L’Aquila’s Regulations concerning the meetings of the Academic Bodies using telematic technology established by the Rector’s Decree n. 319-2020, 17 March, 2020;



Having regard to the University's Regulations concerning the procedures for carrying out the interviews using telematic technology in selection procedures for fixed-term researchers as well as the interviews for testing language skills in selection procedures for First and Second Tier professors established by the Rector's Decree n. 198-2023, 3 March, 2023;

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, by Rector's Decree n. 225-2019, 01 April 2019, by Rector's Decree n. 580-2020, 29 May 2020, and lastly by Rector's Decree n. 1468-2022, 28 October 2022;

Having regard to the University's Regulations as to assignation of teaching tasks 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 Ministerial Decree n. 639 dated 2 May 2024, determining the Scientific Disciplinary Groups and related declarations as well as the rationalization and update of the Academic Disciplines and their reconciliation with the Scientific Disciplinary Groups pursuant to Art. 15 of Italian Law 240/2010, December 30, 2010;

Having regard to the resolution of the Department of Information Engineering, Computer Science and Mathematics n. 10/2024 dated 8 May, 2024 - forwarded with note n. 3824 on 16 July, 2024 and received the same date with Prot. n. 102416 - 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, 30 December 2010, for the Scientific Disciplinary Group 01/INFO-01 – Informatics (previously Academic Recruitment Field 01/B1 – Informatics), Academic Discipline **INFO-01/A – Informatics** (previously INF/01 – Informatics);

Having regard to the resolution of the Department of Information Engineering, Computer Science and Mathematics n. 16/2024 dated 11 July, 2024 - forwarded with note n. 3787 on 15 July, 2024 and received the same date with Prot. n. 101831 - 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, 30 December 2010, for the Scientific Disciplinary Group 01/INFO-01 – Informatics (previously Academic Recruitment Field 01/B1 – Informatics), Academic Discipline **INFO-01/A – Informatics** (previously INF/01 – Informatics);

Having regard to the resolution of the Department of Information Engineering, Computer Science and Mathematics n. 13/2024 dated 19 June, 2024 - forwarded with note n. 3687 on 10 July, 2024 and received the same date with Prot. n. 98816 - 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, 30 December 2010, for the Scientific Disciplinary Group 01/INFO-01 – Informatics (previously Academic Recruitment Field 01/B1 – Informatics), Academic Discipline **INFO-01/A – Informatics** (previously INF/01 – Informatics);

Having regard to the resolution of the Department of Information Engineering, Computer Science and Mathematics n. 14/2024 dated 19 June, 2024 - forwarded with note n. 3688 on 10 July, 2024 and received the same date with Prot. n. 98818 - 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, 30 December 2010, for the Scientific Disciplinary Group 09/IINF-03 – Telecommunications (previously Academic Recruitment Field 09/F2 – Telecommunications), Academic Discipline **IINF-03/A – Telecommunications** (previously ING-INF/03 – Telecommunications);

Having regard to the resolution of the Department of Information Engineering, Computer Science and Mathematics n. 9/2024 dated 8 May, 2024 - forwarded with note n. 3824 on 16 July, 2024 and received the same date with Prot. n. 102416 - 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, 30 December 2010, for the Scientific Disciplinary Group 09/IINF-03 – Telecommunications (previously Academic Recruitment Field 09/F2 – Telecommunications), Academic Discipline **IINF-03/A – Telecommunications** (previously ING-INF/03 – Telecommunications);



Having verified that the expense to reward each fixed-term Researcher for the three-year period for the above-mentioned proced “SPARKS - ures is equal to € 153.253,68 and that the related expense, at the budget item CA. 04.01.01.02.01, shall weigh on the funds of the following projects:

- for the Scientific Disciplinary Group 01/INFO-01 – Informatics, Academic Discipline INFO-01/A – Informatics – resolution n. 10 dated 8 May 2024, forwarded with note n. 3824 on 16 July, 2024:

Project “**MATTERS** – Modeling and Analyzing Tradeoffs beTween cybERSecurity and other quality attributes in Cyber-Physical Systems”, Scientific Coordinator Prof. Vittorio Cortelessa;

- for the Scientific Disciplinary Group 01/INFO-01 – Informatics, Academic Discipline INFO-01/A – Informatics – resolution n. 16 dated 11 July 2024, forwarded with note n. 3787 on 15 July, 2024:

Project BAC PNRR “**ENABLE** – Enhanced Network for intelligent Agents for Building Livable Environments” – CUP E13C24000430006, Scientific Coordinator Prof. Stefania Costantini;

- for the Scientific Disciplinary Group 01/INFO-01 – Informatics, Academic Discipline INFO-01/A – Informatics – resolution n. 13 dated 19 June 2024, forwarded with note n. 3687 on 10 July, 2024:

Research Programme CN00000013 “National Centre for **HPC**, Big Data and Quantum Computing”, CUP E13C22001000006, Scientific Coordinator Prof. Marco Autili;

- for the Scientific Disciplinary Group 09/IINF-03 – Telecommunications, Academic Discipline IINF-03/A – Telecommunications – resolution n. 14 dated 19 June 2024, forwarded with note n. 3688 on 10 July, 2024:

Project **TWIN-MODEL** – Terahertz Wireless seNsing and coMmunication through cOmprehensive channel analysis and harDwarE modeLing for Graphene-Based Devices funded by the extended partnership RESTART – Scientific Coordinator Prof. Fabio Graziosi;

- for the Scientific Disciplinary Group 09/IINF-03 – Telecommunications, Academic Discipline IINF-03/A – Telecommunications - resolution n. 9 dated 8 May 2024, forwarded with note n. 3824 on 16 July, 2024:

Project “**SPARKS** – SuPporting restARt spoKe 3 reSearch”, Scientific Coordinator Prof. Fortunato Santucci;

Having regard to the resolution n. 243/2024 issued by the Board of Directors on 23 July 2024, after approval expressed by the Board of Auditors (minutes n. 6/2024 dated 22 July 2024), authorizing the above-mentioned public selection procedures to recruit a total of 5 (five) Researchers;

DECREES THE FOLLOWING

Art. 1 – Public Selection, position available and objective of the contract

1. A public selection procedure is being held at the University of L’Aquila to recruit **n. 5** fixed-term (3 year), full time Researchers in compliance with Art. 24, Par. 3, Letter a) of Italian Law n. 240/2010, 30 December 2010, and related University Regulations, specified as follows:

	DEPARTMENT	Academic Recruitment Field	Academic Discipline	Project	N. POSITIONS
A	Department of Information Engineering, Computer Science and Mathematics	01/INFO-01 – Informatics	INFO-01/A - Informatics	MATTERS	1
B		01/INFO-01 – Informatics	INFO-01/A - Informatics	ENABLE	1
C		01/INFO-01 – Informatics	INFO-01/A - Informatics	HPC	1
D		09/IINF03 – Telecommunications	IINF-03/A – Telecommunications	TWIN-MODEL	1
E		09/IINF03 – Telecommunications	IINF-03/A – Telecommunications	SPARKS	1

2. Attachments A, B, C, D, and E form integral part of this selection announcement, indicating according to the Department's resolutions, research, teaching, integrated teaching activities and services to the students object of the contract, foreign language requisite, maximum number of publications and, with due regard to criteria and parameters indicated in Ministerial Decree n. 243, 25 May 2011, further assessment criteria of the candidates.

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.

3. For teaching tasks reference has to be made to the University's Regulations as to assignment of teaching tasks to professors and researchers established by Rector's Decree n. 915-2017, 19 December 2017 as amended and supplemented.

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 165/2001, Art. 38 possessing a Ph.D. in subjects related to the Academic Discipline object of the selection procedure or an equivalent degree obtained in Italy or abroad.

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.

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 Par. 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 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 conditional 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 by registered post with notice of receipt or by certified e-mail (PEC) if provided in the application.

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.

The application deadline is indicated in the selection procedure at the following page:
<https://www.univaq.it/section.php?id=1532>.



2. The application for the selection procedure as well as qualifications, documents and publications are to be submitted telematically, on pain of exclusion, via the online tool available at <https://pica.cineca.it/univaq>. The computer application necessarily requires that the candidate has an e-mail account in order to register or he/she may also log in using the SPID credentials. 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 by e-mail.

Applications received after the deadline set in this selection announcement shall not be considered.

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 through the link available at the bottom of the following page: <https://pica.cineca.it/univaq.it>.

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

- **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 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);
- **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;
- **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.

It is not necessary to sign the application if the candidate logs in using the SPID credentials.

3. All applications are subject to verification. **In any case the following shall be cause for exclusion:**
- omission of signature of application, in accordance with laws and regulations;
 - not including a copy of the official declaration of equivalency of the Ph.D. obtained abroad issued by the relevant authorities of the foreign country OR of a copy of the application for obtaining such a declaration;
 - 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).

4. In his/her application the candidate is required to declare the following:

- 1) Surname and name;
- 2) Date and place of birth;
- 3) Tax code (codice fiscale);
- 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. 10 January 1957, n. 3;
 - 11) That they are not 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;
 - 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 after the preliminary meeting of the Examining Board;
 - 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.
5. 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 S. 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.

- 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.

- 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.
- The University Administration declines all responsibility for unreceived 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.
- 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 4 of this article 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 photocopy of a valid identity document;
- A photocopy of their tax code (codice fiscale);
- A Curriculum Vitae listing their scientific and teaching activities, written in Italian and in English;
- A list of qualifications;
- 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;
- A numbered list of publications;
- A list of the candidate's teaching experience indicating the University/Body, the period and the subject taught;
- Publications (a maximum number as indicated in the Attachments to this selection announcement);
- 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

- Publications presented must be submitted only in .pdf format in the dedicated section of the telematic procedure at <https://pica.cineca.it/univaq>.
- 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 – Palazzo Camponeschi - Piazza S. Margherita 2 – 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, selection procedure code and identification number assigned by the computer application. If the maximum number of publications indicated in the Attachments to this selection announcement 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. 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.
4. Publications written in a foreign language must be accompanied by a certified translation into Italian 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.

Art. 7 - Nomination of the Examining Board

1. The Examining Board is appointed by a Rector's Decree upon nomination of the Department requesting the position as per Regulations as to recruitment of fixed-term university Researchers appointment indicated in the introduction to this selection announcement.
2. The Rector's Decree appointing the Examining Board shall be published on the University's Albo Ufficiale and on the University website.
3. From the date the Rector's Decree nominating the Examining Board is published candidates have 10 (ten) days to state their opposition to any of the components of the Board. If the cause of the objection arises after the time indicated above so long as before the date of the Board's taking office, the period shall run from its occurrence. After this period, and anyhow after the Board's taking office, no instances may be presented.
4. The Board nominates a President and a Secretary.
5. The Board operates with the presence of all its members and adopts decisions by absolute majority.
6. Participation in all Board activities is mandatory for all members.
7. The Board, after notifying the Head of the selection procedure, may hold meetings using telematic technology. At the end of the meeting the minutes must be drawn up, approved, signed by the Secretary who has actually drawn them up and forwarded telematically to the competent administration office. The other members of the Examining Board underwrite a statement in which they declare that they have joined the meeting and undersigned the minutes. Where applicable, reference has to be made to the relevant University's Regulations (Rector's Decree n. 319-2020, 17 March 2020).



8. Reimbursement of expenses incurred is regulated by Art. 7, Paragraph 12 of the University's Regulations as to recruitment of fixed-term university 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 the Attachments A, B, C, D and E to this selection announcement. The Board also establishes the criteria to confer points to qualifications and publications of those candidates who, after preliminary assessment, shall be 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. After determining the above said criteria and having read the Rector's Decree concerning the list of candidates admitted to the selection procedure, each member of the Board must state for the record that no incompatibility factors and conflict of interest are present.
3. The above-mentioned preliminary procedure initially involves determining if the candidates possess the requisites for participation in the light of what indicated in the announcement. The selection is carried out by assessing the candidates with a motivated analytic judgement on their qualifications, CVs and publications, including their Ph.D. thesis.
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 admitted to the interview by the Board along with the analytic evaluations, the notification of date, place and time of the interview and of the foreign language test, is published 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 to candidates. Candidates are required to appear on the date and place scheduled for their interview with a valid identity document without any further notification. If the candidate does not show up, this shall be considered final renunciation to the selection procedure.**

In compliance with the Regulations concerning the procedures for carrying out interviews using telematic technology in the selection procedures for RTD/A and RTD/B as well as interviews for testing language skills in the selection procedures for First and Second Tier Professors established by the Rector's Decree n. 198-2023, 3 March, 2023, the interview may be carried out by using the audio and video tools according to the Instructions on telematic connection at <https://www.univaq.it/section.php?id=1532>. In the section "Candidates admitted to interview" a Notice shall be published following which candidates must fill in, sign and send within the date set for the interview a declaration to the following e-mail address: concRTDA@strutture.univaq.it.

Not sending such a declaration 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 formulates a collegial judgement and, on the basis of the overall scores obtained, deliberates by majority the winner of the selection procedure.
7. All proceedings of the selection procedure are contained in the minutes of the meetings, including all the assessment results obtained during the preliminary meeting, grading of qualifications and publications submitted by candidates, the collegial judgement and evaluation



of the 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 to 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. If all procedures are not concluded even within the extended deadline the Rector shall proceed to the substitution of the Board members.

Art. 10 - Determining Validity of Proceedings

1. Within thirty days after the proceedings are consigned to the Settore Concorsi e Selezioni, the Rector issues a Decree establishing their validity and declaring the selected candidate. The Rector's Decree and the proceedings are 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 Decree is immediately passed on to the Department in charge of the appointment. The candidate selected shall also be notified.
2. If the Rector finds any irregularities in the proceedings he/she may make a motivated request to the Board to obtain rectification.

Art. 11 - Appointment by the Department

1. The Department Council that has requested the selection procedure, within 60 days after having acquired the Rector's Decree approving the proceedings with the indication of the winner and of any eligible candidates, must propose a date to officially appoint the selected Researcher. The Head of the Department must convene the Council composed by the competent members. The proposal for the call is valid if approved by the vote of the overall majority of First and Second Tier Professors of the Department. In case of failure to reach such a majority the consequent resolution of not calling must be properly motivated with regard to failing the needs that had motivated the request of the selection procedure.
2. Failing to propose the call within the above-mentioned deadline or failing to properly motivate the resolution of not calling involves for the Department requesting the procedure the impossibility to start for one year a new selection procedure for the same Academic Discipline.
3. The Department's deliberation to call the Researcher must be approved by the University's Board of Directors.
4. Only in case of impossibility or renouncing taking service from the winner of the selection procedure and in presence of any eligible candidates, the Department, according to Art. 10 of the Regulations as to recruitment of fixed-term university Researchers, may proceed with a new call by scrolling the merit list. The merit ranking is no longer valid beyond the term of 120 days from the proceedings approval and anyhow after the selected candidate has taken service.
5. Within 30 days of the date of the call approval by the Board of Directors the Researcher is invited to present all necessary documents for contract stipulation.

Art. 12 - Drawing-up of contract

1. A fixed-term employment contract shall be drawn up and underwritten by the Rector and by the Researcher. The contract is for three years, renewable once for further two years only, after obtaining positive assessment of teaching and research activities carried out, provided that the necessary funds are available. During maternity leave the contract is put on hold and expiration date is postponed for a period equal to that of compulsory leave of absence.
2. All elements regarding fixed-term researcher contracts specified in Art. 11 of the relevant 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 of fixed-term and full-time Researchers 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 as amended and supplemented and also contact the Health and Safety Service 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

1. The gross annual salary for fixed-term Researcher, included charges to be borne by the administration and by the subject concerned, is established in MUR Ministerial Tables. The contract is subject to all social security and fiscal taxes provided for all contracts entered with the University of L'Aquila.

Art. 14 - Documents for Contract Stipulation

1. 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 4, 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.

The selected candidate, if already employed by a public administration, must declare it in order to take a leave of absence for all the contract period, unpaid and without social security contributions, or an "out of role" position where such position is provided for in their administration system.

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 spot checks to verify the information and certification presented.

Art. 15 - Personal Data

1. The processing of candidates' personal data is disciplined by Leg. Decree n. 196, 30 June 2003 and UE Regulation n. 679/2016. Personal data supplied by the candidates in the application form 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 to access the data concerning them, the right to rectify, update, complete or erase erroneous or incomplete data or data collected in a manner that is contrary to law, and to object to processing for legitimate reasons.



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Art. 16 – Disclosure

1. 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

1. 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

1. Pursuant to Art. 5 of Italian Law n. 241, 7 August 1990, dr. Loredana Taccone, Head of the Settore Concorsi e Selezioni of the University of L'Aquila, is also head of this selection procedure.

L'Aquila,

The Rector
Prof. Edoardo Alesse
(signed:) Edoardo Alesse

ATTACHMENT A

Scientific Disciplinary Group	01/INFO-01 - Informatics
Academic Discipline	INFO-01/A – Informatics
Place of work	Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Research Project Title	Modeling and Analyzing Tradeoffs between cyBERSecurity and other quality attributes in Cyber-Physical Systems
Scientific Coordinator	Prof. Vittorio Cortellessa, First Tier Professor, Academic Discipline INFO-01/A – Informatics at the Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Type of contract	Full time
Period	3 years, renewable for further 2 years
Admission Requisites	Requisites as provided for by Law n. 240, 30 December 2010, Art. 24, paragraph 3, letter a)
Teaching activities, integrated teaching activities and services to the students	The Researcher shall carry out teaching activities within the field of the Academic Discipline INF/01 – Informatics in the context of the project. The total number of hours required for teaching activities, integrated teaching activities and services to the students is 350 hrs per year, of which 60 hrs of lectures.
Research Activities	Research activities, to be carried out in the context of the project MATTERS (Modeling and Analyzing Tradeoffs between cyBERSecurity and other quality attributes in Cyber-Physical Systems), shall be basically concerned with the study of tradeoffs between cybersecurity and other quality attributes (such as performance and reliability) in the context of Cyber-Physical Systems (CPS). To this purpose Model-Driven Engineering (MDE) techniques shall be conceived and developed, with particular attention to modeling of the behavior as dynamics is crucial to study CPS quality aspects. Three main objectives shall be pursued, that is: (01) An environment to model CPS cybersecurity and other quality attributes with multiformalisms. The CPS dynamic elements shall be caught through a collaborative modeling platform which shall allow advanced analyses and machine learning algorithms to analyze quality attributes and predict perspective behaviors of the system in different scenarios. (02) White-box techniques for the analysis based on models of CPS quality. The methodologies within this objective are based on explicit models (multiformalism) of CPS dynamics. An analysis of tradeoffs shall be introduced in order to optimize the CPS overall quality based on the most relevant attributes. Moreover, the quality of the runtime data architecture of the CPS, in terms of compromise between energy efficiency, data traffic and performance shall be analyzed. (03) Techniques based on machine learning to assess and predict the CPS cybersecurity/quality. Recommender systems shall assist in identifying anomalous behaviors within a CPS, acting as a proactive defense mechanism against possible cyber threats. By analyzing historical data and interactions in real time, suggestions about adaptive security measurements shall be proposed, thus improving the CPS resilience.
Maximum number of publications	12 (twelve)



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Foreign language requisite	English
Assessment criteria	With due regard to criteria and parameters indicated in Ministerial Decree n. 243/2011, 25 May 2011, the Examining Board shall assess the high quality of the candidates' scientific production, documented by publications in highly regarded international journals.
Type of funding	The total annual expense for the fixed-term, full-time Researcher in compliance with Art. 24, Letter a) as established in MUR Ministerial Tables, presently amounts to € 51.084,56 (included charges to be borne by the administration) for a total amount of € 153.253,68 for the three years period and shall weigh on the funds of the Project “ MATTERS – Modeling and Analyzing Tradeoffs beTween cybERSecurity and other quality attributes in Cyber-Physical Systems”, selected in the drop-down call PNRR – Extended Partnership “SEcurity and RIghts in the Cyberspace (SERICS)” – topic 7 “Cybersecurity, new technologies and protection of rights”, Spoke 8 “Risk Management and Governance” coordinated by the University of Bologna – CUP J33C22002810001

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

Responsabile: Dott.ssa Loredana Taccone – tel: 0862.432023

Per eventuali informazioni rivolgersi a: Raffaele Iovenitti – Giuseppina Persia – Fatmir Shekaj – tel: 0862.432176 – 2744 – 2037

Università degli Studi dell'Aquila – Palazzo Camponeschi – Piazza Santa Margherita, 2 – 67100 L'Aquila – www.univaq.it – protocollo@pec.univaq.it

ATTACHMENT B

Scientific Disciplinary Group	01/INFO-01 - Informatics
Academic Discipline	INFO-01/A – Informatics
Place of Work	Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Research Project Title	“Enhanced Network for intelligent Agents for Building Livable Environments – ENABLE”
Scientific Coordinator	Prof. Stefania Costantini, First Tier Professor, Academic Discipline INFO-01/A – Informatics at the Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Type of contract	Full time
Period	3 years, renewable for further 2 years
Admission Requisites	Requisites as provided for by Law n. 240, 30 December 2010, Art. 24, paragraph 3, letter a)
Teaching Activities	60 hrs per year
Teaching activities, integrated teaching activities and services to the students	The Researcher shall carry out class teaching and/or integrated activities in the Bachelor's level and Master's level degree in Informatics to be carried out in subjects related to the envisaged research activity. Moreover, class teaching activities may be required in the context of post-graduate training.
Research Activities	Research activities to be carried out are related to the project ENABLE, whereas the project general objective is to lay the foundation of a new paradigm that may be defined a “Holistic City (HC)” and shall focus on the improvement of the experience of the citizens' overall life and in response to their organizational, physical, cognitive and emotional needs, protecting the ethical values and the local and global objectives of the city, among which energy and water saving as well as pollution mitigation. The Researcher shall contribute to lay down the theoretical foundation and define and implement a prototype architecture for the Holistic City, and experiment the architecture itself on a relevant case study.
Maximum number of publications	12 (twelve)
Foreign language requisite	English
Assessment criteria	With due regard to criteria and parameters indicated in Ministerial Decree n. 243/2011, 25 May 2011, the Examining Board shall assess the high quality of the candidates' scientific production, documented by publications in highly regarded international journals and conferences. Past experience as post-doc research fellow and other positions in the Public Administration shall also be considered.
Type of funding	The total annual expense for the fixed-term, full time Researcher in compliance with Art. 24, Letter a) as established in MUR Ministerial Tables is equal to € 51.084,56 (included charges to be borne by the administration) for a total amount for the three year period equal to € 153.253,68 and shall weigh on the funds of the Project BAC PNRR



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	“ENABLE - Enhanced Network for intelligent Agents for Building Livable Environments” – CUP E13C24000430006
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Unità Organizzativa Responsabile: Settore Concorsi e Selezioni – e-mail: conc@strutture.univaq.it

Responsabile: Dott.ssa Loredana Taccone – tel: 0862.432023

Per eventuali informazioni rivolgersi a: Raffaele Iovenitti – Giuseppina Persia – Fatmir Shekaj – tel: 0862.432176 – 2744 – 2037

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ATTACHMENT C

Scientific Disciplinary Group	01/INFO-01 - Informatics
Academic Discipline	INFO-01/A – Informatics
Place of Work	Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Research Project Title	Models and user's safeguarding guidelines in the legal dimension for the development of AI software systems and data intensive.
Scientific Coordinator	Prof. Marco Autili, Second Tier Professor, Academic Discipline INFO-01/A – Informatics at the Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Type of contract	Full time
Period	3 years, renewable for further 2 years
Admission Requisites	Requisites as provided for by Law n. 240, 30 December 2010, Art. 24, paragraph 3, letter a)
Teaching Activities	60 hrs per year
Teaching activities, integrated teaching activities and services to the students	<p>The Researcher shall carry out activities broadly in line with the objectives of the project that supports the present position. Therefore, besides the component specifically dedicated to the above-mentioned research, equal to 1.150 hrs. out of the total estimated 1.500 hrs., the component concerning the 350 hrs. of teaching activities, integrated teaching activities and services to the students shall be fully addressed to the project's issues, in the form of:</p> <ul style="list-style-type: none"> – lectures on the issues related to the research activity; – lectures post-lauream on the issues related to the research activity; – integration of teaching units in the field of information engineering, Master's level degree, specialization and Ph.D. courses in the form of seminars, cycles of lessons within the courses offered, given in agreement with the professors in charge of the courses in the field of the research activity; – planning, coordination and organization of teaching with a view to integrate the educational offer with issues concerning computer law and issues related to new technologies regulations (GDPR, AI Act); – services to the students (orientation and tutoring on issues related to the research activity); – orientation activities to high school students and/or teachers aimed at increasing the awareness of recent technological trends in the field of telecommunications.
Research Activities	<p>The ideal candidate shall develop research activities in the field of computer law with particular reference to the discipline of artificial intelligence and data protection, and more in general to a strategy aimed at building regulatory models of "smart" technologies. In particular, the scientific activity shall focus on creating models and guidelines of development of AI systems and data intensive able to offer the value chain operators the essential tools of an AI system as indicated for example in the AI Act, to comply with the European and national legal framework, ensuring at the same time the users' protection in the human-machine interaction and reducing margins of error and possible</p>



	<p>infractions. At the core of the investigation there shall be the issue of requirements and obligations envisaged for the whole life cycle of smart systems, verifying the practical implications of the present legislation in favor of a training for technical operators pursuant to the relevant legal framework, aiming at the development of software that meet the new ethical-legal standards. The candidate shall also work in national and international interdisciplinary groups and promote research activities through their participation in editorial committees of scientific journals and participation in, and organization of, seminars and conferences related to their research activity.</p>
Maximum number of publications	12 (twelve)
Foreign language requisite	English
Assessment criteria	The Examining Board shall assess the candidates according to criteria and parameters indicated in Ministerial Decree n. 243, 25 May 2011.
Type of funding	The total annual expense for the fixed-term, full time Researcher in compliance with Art. 24, Letter a) as established in MUR Ministerial Tables is equal to € 51.084,56 (included charges to be borne by the administration) for a total amount for the three year period equal to € 153.253,68 and shall weigh (for 36 monthly payments) on the funds of the Research Programme CN00000013 “National Centre for HPC, Big Data and Quantum Computing” – CUP E13C22001000006 financed as per the Directorial Decree n. 1031 dated 17 June 2022 to weigh on the resources of PNRR MUR – M4C2 – Investment 1.4 – “National Centres” Announcement – Directorial Decree n. 3138 dated 16 December 2021.

ATTACHMENT D

Scientific Disciplinary Group	09/IINF-03 – Telecommunications
Academic Discipline	IINF-03/A – Telecommunications
Place of Work	Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Research Project Title	Wireless communications supporting urban air mobility evolutionary scenarios.
Scientific Coordinator	Prof. Fabio Graziosi, First Tier Professor, Academic Discipline ING-IND/03 – Telecommunications at the Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Type of contract	Full time
Period	3 years, renewable for further 2 years
Admission Requisites	Requisites as provided for by Law n. 240, 30 December 2010, Art. 24, paragraph 3, letter a)
Teaching Activities	60 hrs per year
Teaching activities, integrated teaching activities and services to the students	<p>The Researcher shall carry out activities broadly in line with the objectives of the project that supports the present position. Therefore, besides the component specifically dedicated to the above-mentioned research, equal to 1.150 hrs. out of the total estimated 1.500 hrs., the component concerning the 350 hrs. of teaching activities, integrated teaching activities and services to the students shall be fully addressed to the project's issues, in the form of:</p> <ul style="list-style-type: none"> – lectures on the issues related to the research activity; – lectures post-lauream on the issues related to the research activity; – integration of teaching units in the field of information engineering, Master's level degree, specialization and Ph.D. courses in the form of seminars, cycles of lessons within the courses offered, given in agreement with the professors in charge of the courses in the field of communication channels and reliable wireless communication technologies, in particular supporting urban air mobility evolutionary scenarios; – planning, coordination and organization of teaching with a view to integrate the educational offer with issues concerning more recent communication technologies with a view to 6G related to the research activity; – support and supervising activities for thesis and Ph.D. dissertation work on issues related to reliable and safe telecommunication technologies, in particular for high mobility scenarios and non-terrestrial networks; – services to the students (orientation and tutoring on issues related to the research activity); – orientation activities to high school students and/or teachers aimed at increasing the awareness of recent technological trends in the field of high frequency wireless communication technologies for terrestrial and non-terrestrial networks related to the research activity;



Research Activities

The initiative takes place within the project TWIN-MODEL – Terahertz WIREless seNsing and coMmunication through cOmprehensive channel analysis and harDwarE modeLing for Graphene-Based Devices, funded by the Extended Partnership RESTART to the outcome of the participation in the call issued by Spoke 2 of the above-mentioned Partnership, with specific reference to the activities carried out by the University of L'Aquila. The project meets the challenges presented by new use cases that involve air mobility systems with and without pilot and in particular urban air mobility, which is emerging as a new scenario of mobility to overcome the two-dimensional transport paradigm of the already saturated urban and underground space and solve traffic congestion achieving at the same time a significant environmental impact reduction. Urban air mobility is a constantly growing trend with potential applications to air taxi, delivery of goods and various services in the medical and industrial fields. Stable and timely communications as well as extremely reliable data exchange are required to make safe and efficient its operation. 5G/6G technologies represent a starting point; their potentials and limitations shall be analyzed in applications supporting urban air mobility. More long terms, new paradigms shall be explored which are natively integrated in the development trends of the aeronautic field of the future, certainly characterized by an increasing use of *unmanned* systems and with a high level of autonomy (that is, with a reduced need of ground-based control and operation). Research activity shall focus on the exploration of the potentials of sub-THz communication technologies for high mobility non-terrestrial networks with particular reference to the advanced urban mobility use case. The activity involves the design and implementation of testbeds for sub-THz communications for validating innovative approaches to communications in the field of urban air mobility.

Then, through measurement campaigns in various application scenarios that involve mobile nodes on drones, the researcher shall be able to develop efficient simulation models of urban air mobility with sub-THz communication channels. These models shall be integrated in an advanced simulation software significantly contributing to the simulation framework of the TWIN_MODEL project.



Maximum number of publications	12 (twelve)
Foreign language requisite	English
Assessment criteria	<p>With due regard to criteria and parameters indicated in Ministerial Decree n. 243/2011, 25 May 2011, the Examining Board shall assess: the candidates' overall profile and scientific maturity; their scientific production, documented by publications in international journals and conferences; their contribution in the scientific works submitted; the quality and international visibility/relevance of the scientific works in the main citation databases; consistency of their scientific activity with the Academic Discipline object of the selection procedure and with the type of scientific commitment required; their past experience in scientific research projects.</p>
Type of funding	<p>The total annual expense for the fixed-term, full time Researcher in compliance with Art. 24, Letter a) as established in MUR Ministerial Tables is equal to € 51.084,56 (included charges to be borne by the administration) for a total amount for the three year period equal to € 153.253,68 and shall weigh (for 36 monthly payments) on the funds of the Project TWIN-MODEL – Terahertz Wireless seNsing and coMmunication through cOmprehensive channel analysis and harDwarE modeLing for Graphene-Based Devices funded within the Extented Partnership RESTART to the outcome of the participation in the call issued by Spoke 2 – CUP D93C22000910001.</p>

ATTACHMENT E

Scientific Disciplinary Group	09/IINF-03 – Telecommunications
Academic Discipline	IINF-03/A – Telecommunications
Place of Work	Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Research Project Title	Study of network architectures and transmission techniques for smart radio environments in 6G systems
Scientific Coordinator	Prof. Fortunato Santucci, First Tier Professor, Academic Discipline ING- IND/03 – Telecommunications at the Department of Information Engineering, Computer Science and Mathematics (DISIM), University of L'Aquila
Type of contract	Full time
Period	3 years, renewable for further 2 years
Admission Requisites	Requisites as provided for by Law n. 240, 30 December 2010, Art. 24, paragraph 3, letter a)
Teaching Activities	60 hrs per year
Teaching activities, integrated teaching activities and services to the students	<p>The Researcher shall carry out activities broadly in line with the objectives of the project that supports the present position. Therefore, besides the component specifically dedicated to the above-mentioned research, equal to 1.150 hrs. out of the total estimated 1.500 hrs., the component concerning the 350 hrs. of teaching activities, integrated teaching activities and services to the students shall be fully addressed to the project's issues, in the form of:</p> <ul style="list-style-type: none"> – lectures on the issues related to the research activity; – lectures post-lauream on the issues related to the research activity; – integration of teaching units in the field of information engineering, Master's level degree, specialization and Ph.D. courses in the form of seminars, cycles of lessons within the courses offered, given in agreement with the professors in charge of the courses in the field of the research activity; – planning, coordination and organization of teaching with a view to integrate the educational offer with issues concerning radio signal processing and reception techniques and implementation on Software Defined Radio platforms; – support and supervising activities for thesis and Ph.D. dissertation work on issues concerning radio signal processing and reception techniques and implementation on Software Defined Radio platforms; – services to the students (orientation and tutoring on issues related to the research activity); – orientation activities to high school students and/or teachers aimed at increasing the awareness of recent technological trends in the field of telecommunications.
Research Activities	Research activities to be carried out within the project "SPARKS: SuPporting restARt spoKe 3 reSearch" shall focus on the study of architectures, networks and access protocols to the medium characterized by high energetic efficiency and reliability for the services connected with the future generation 6G communication networks. The project main objective is the study of innovative techniques for managing communication devices with limited computing and energy resources using heterogeneous and asymmetrical architectures that



	exploit e.g. (BackCom) backscattering communications, (IRS) intelligent reflective surfaces, macro- and micro-diversity techniques for the definition of smart radio environments. A deep knowledge of the interactions between different protocol levels and wireless communication systems is required, with a particular focus on radio signal processing and reception techniques. At the same time, the researcher is expected to be able to validate the proposed patterns in a practical scenario. The abstract system model must be instantiated implementing SDR (Software Defined Radio) platforms able to catch the signals transmitted and reflected by the tags using multiple carrier frequencies.
Maximum number of publications	12 (twelve)
Foreign language requisite	English
Assessment criteria	<p>With due regard to criteria and parameters indicated in Ministerial Decree n. 243/2011, 25 May 2011, the Examining Board shall assess the high quality of the candidates' scientific production, documented by publications in highly regarded international journals and conferences. Proven 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 CV the following shall be considered particularly qualifying:</p> <ul style="list-style-type: none"> - qualifications in research fields related to the research activity to be carried out, that is the study of radio signal processing and reception techniques and implementation on Software Defined Radio platforms; - publications concerning the research activity object of the project, that is the study of radio signal processing and reception techniques and implementation on Software Defined Radio platforms.
Type of funding	<p>The total annual expense for the fixed-term, full time Researcher in compliance with Art. 24, Letter a) as established in MUR Ministerial Tables is equal to € 51.084,56 (included charges to be borne by the administration) for a total amount for the three year period equal to € 153.253,68 and shall weigh on the Project “SPARKS - SuPporting restARt spoKe 3 reSearch”, selected in the drop-down call PNRR – Extended Partnership “RESTART – RESearch and innovation on future Telecommunications systems and networks, to make Italy more smART”, Spoke 3 “Wireless Networks and Technologies” coordinated by Milan Polytechnic – CUP D43C22003080001.</p>