



Disclaimer: This English translation of the original text in Italian is provided for information purposes only. In case of a discrepancy, the original Italian document will prevail.

Subject: Public selections for the recruitment of No. 17 tenure track fixed-term researchers (RTT), co-funded by the Ministry of University and Research, and reserved for candidates who have held a fixed-term researcher position of type a), pursuant to Article 24, paragraph 3, letter a) of Law No. 240/2010, as in force prior to the entry into force of Law No. 79 of 29 June 2022, as part of projects funded under the National Recovery and Resilience Plan (PNRR), under a three-year contract or a two-year extension expiring in 2025 or 2026 – CUP F83C26001750002 – selection code rttAP_29D_0726.

THE RECTOR,

HAVING REGARD TO	Law No. 168 of 9.05.1989 on the establishment of the Ministry of Universities and Academic and Technological Research;
HAVING REGARD TO	the current Statute of the University of Cagliari, issued by Rector's Decree No. 305 of 28.03.2022, published in the Official Gazette of the Italian Republic (G.U.) - general series - No. 88 of 24.04.2022;
HAVING REGARD TO	Law No. 241 of 7.08.1990, as amended and supplemented, containing new rules on administrative procedures and the right of access to administrative documents;
HAVING REGARD TO	Law No. 104 of 5.02.1992, framework law for assistance, social integration and the rights of persons with disabilities;
HAVING REGARD TO	Presidential Decree No. 445 of 28.12.2000, containing the Consolidated Text of Legislative and Regulatory Provisions on Administrative Documentation;
HAVING REGARD TO	Legislative Decree No. 196 of 30.06.2003, "Personal Data Protection Code";
HAVING REGARD TO	Law No. 106 of 15.04.2004, containing rules on the deposit of documents of cultural interest intended for public use;
HAVING REGARD TO	Legislative Decree No. 82 of 07.03.2005, "Digital Administration Code" and subsequent amendments and additions;
HAVING REGARD TO	the new European Charter for Researchers contained in European Union Council Recommendation C/2023/1640 of 18.12.2023;
HAVING REGARD TO	Decree No. 1411 of 16.12.2021, concerning the "Internal Structure of the Human Resources Strategy for Researchers (HRS4R) at the



	University of Cagliari,” updated and supplemented by Decree No. 521 of 18.04.2023;
HAVING REGARD TO	Legislative Decree No. 198 of 11.04.2006, containing the “Code of equal opportunities between men and women”;
HAVING REGARD TO	Presidential Decree No. 252 of 03.05.2006, regulation on the deposit of documents of cultural interest intended for public use;
HAVING REGARD TO	Law No. 240 of 30.12.2010, as subsequently amended and supplemented, laying down rules on the organisation of universities, academic staff and recruitment, as well as delegating power to the Government to boost the quality and efficiency of the university system;
HAVING REGARD TO	Ministerial Decree No. 456 of 10.05.2023, which defines the equivalence tables between Italian and foreign academic positions pursuant to Article 18, paragraph 1, letter b) of Law No. 240/2010;
HAVING REGARD TO	Presidential Decree No. 232 of 15.12.2011, Regulations governing the remuneration of university professors and researchers, pursuant to Article 8, paragraphs 1 and 3 of Law No. 240 of 30.12.2010;
HAVING REGARD TO	the Ministerial Decree No. 243 of 25.05.2011, which identifies criteria and parameters for the preliminary evaluation of candidates in public selection procedures for recipients of contracts as per art. 24, paragraph 2, letter c) of Law No. 240 of 30.12.2010;
HAVING REGARD TO	Legislative Decree No. 49 of 23 March 2012, laying down “Rules governing the planning, monitoring and evaluation of universities’ budgeting and recruitment policies, in implementation of the delegation provided for in Article 5(1) of Law No. 240 of 30 December 2010, and for the achievement of the objectives set out in paragraph 1, letters (b) and (c), in accordance with the regulatory principles and guiding criteria established in paragraph 4, letters (b), (c), (d), (e) and (f), and paragraph 5.”
HAVING REGARD TO	Ministerial Decree No. 639 of 02.05.2024, published in the Official Gazette of the Italian Republic No. 107 of 09.05.2024, concerning the determination of the academic-disciplinary groups and the relative declarations, as well as the rationalisation and updating of the academic-disciplinary sectors and the reallocation of the latter to the academic-disciplinary groups, pursuant to Article 15 of Law 240/2010;
HAVING REGARD TO	EU Regulation 2016/679 concerning the protection of natural persons with regard to the processing of personal data;



HAVING REGARD TO	the Code of Ethics and Conduct of the University of Cagliari, issued by Rector's Decree No. 351 of 03.04.2025;
HAVING REGARD TO	the current <i>"Rules and regulations for the stipulation of fixed-term tenure track researcher contracts (RTT) at the University of Cagliari"</i> ;
HAVING REGARD TO	Law No. 199 of 30 December 2025, entitled "State Budget for the 2026 Financial Year and Multi-year Budget for the 2026–2028 Three-Year Period", and in particular Article 1, paragraphs 305–309, which provides that: Paragraph 305 <i>"State universities (...) are authorized to recruit (...) fixed-term university researchers referred to in Article 24, paragraph 3, of Law No. 240 of 30 December 2010, (...) following the completion of reserved selection procedures, up to a maximum of 50 per cent, for university researchers recruited under projects funded by the National Recovery and Resilience Plan (PNRR), on the basis of the requirements and in accordance with the procedures set out in paragraph 306 of this Article, and within the limits of the available financial resources referred to in paragraph 307 (...)."</i> Paragraph 306 <i>"Within the limits of the recruitment capacity provided for under current legislation, as supplemented by the resources referred to in paragraph 307, state universities are authorized to recruit the university researchers referred to in paragraph 305, following the completion of the selection procedures set out in Article 24, paragraph 2, of Law No. 240 of 30 December 2010, in which fixed-term university researchers referred to in Article 24, paragraph 3, letter a), of Law No. 240 of 30 December 2010, as in force prior to the entry into effect of Law No. 79 of 29 June 2022, may participate. The procedures referred to in the first sentence shall be reserved, up to a maximum of 50 per cent, for researchers recruited under the contracts referred to in the same Article 24, paragraph 3, letter a), within projects funded by the National Recovery and Resilience Plan (PNRR). Universities shall complete such procedures by 31 December 2026 with regard to personnel whose contracts expire in 2025, and by 31 December 2027 with regard to personnel whose contracts expire in 2026."</i> Paragraph 307 <i>"For the purpose of co-financing the recruitments referred to in paragraph 306, the Ordinary Financing Fund for Universities, referred to in Article 5, paragraph 1, letter a), of Law No. 537 of 24 December 1993, is increased by €11.3 million annually</i>



starting from 2026 and by a further €38.7 million annually starting from 2027. By decree of the Minister of University and Research, the procedures and deadlines for the allocation of these resources among state universities, as well as the criteria governing their distribution, shall be established.”;

Paragraph 308 “The resources referred to in paragraph 307 shall be used to co-finance up to 50 per cent of the expenditure, including social security and pension contributions, within the limits of the allocated funding. The share of expenditure borne by the recruiting university, in addition to the amount set aside for the purposes referred to in Article 24, paragraph 5, of Law No. 240 of 30 December 2010, shall be charged against its ordinary recruitment capacity, within the limits thereof.”;

Paragraph 309 “The resources referred to in paragraph 307 that are not used by state universities for the purposes set out in paragraph 306 shall be allocated proportionally and as an addition to the basic component of the Ordinary Financing Fund for Universities, referred to in Article 5, paragraph 1, letter a), of Law No. 537 of 24 December 1993, to be used within the same reference year.”

HAVING REGARD TO

Ministerial Decree No. 193 of 5 March 2026, which establishes the allocation table among Italian universities of the resources appropriated under the 2026 State Budget Law for the co-financing of recruitment procedures for so-called tenure-track researchers pursuant to Article 24, paragraph 3, of Law No. 240 of 30 December 2010 (RTT positions), reserved for RTDa researchers, namely researchers referred to in Article 24, paragraph 3, letter a), of the same law, as worded prior to Decree-Law No. 36 of 30 April 2022, converted with amendments by Law No. 79 of 29 June 2022;

HAVING REGARD TO

Ministry of University and Research (MUR) Note No. 0000313 of 14 April 2026, providing the operational guidelines for the implementation of the above-mentioned measures;

WHEREAS

the Academic Senate in its meeting of 29.06.2026 expressed a favourable opinion regarding the allocation to the Departments of the 35 positions assigned by the Ministry of University and Research (MUR) through Ministerial Decree No. 193 of 5 March 2026. It mandated the Rector to obtain the resolutions through which the Departments identify, for each allocated position, the relevant Scientific Disciplinary Group (GSD) and the corresponding Scientific-



Disciplinary Sector (SSD), or confirm the GSD and SSD for positions already included in the 2024–2026 three-year planning framework. The Rector was further authorized, once the departmental resolutions have been acquired, to initiate the recruitment procedures through the publication of the relevant selection notices, taking into account the availability of staffing points to be committed as co-financing (0.45 staffing points for each position) and the available budget resources, including the formalization of the funding by the Autonomous Region of Sardinia (RAS);

WHEREAS

that the Board of Directors, in its meeting of 30.06.2026 the allocation to the Departments of the 35 positions assigned by the Ministry of University and Research (MUR) through Ministerial Decree No. 193 of 5 March 2026. It mandated the Rector to obtain the resolutions through which the Departments identify, for each allocated position, the relevant Scientific Disciplinary Group (GSD) and the corresponding Scientific-Disciplinary Sector (SSD), or confirm the GSD and SSD for positions already included in the 2024–2026 three-year planning framework. The Rector was further authorized, once the departmental resolutions have been acquired, to initiate the recruitment procedures through the publication of the relevant selection notices, taking into account the availability of staffing points to be committed as co-financing (0.45 staffing points for each position) and the available budget resources, including the formalization of the funding by the Autonomous Region of Sardinia (RAS);

HAVING REGARD TO

the resolutions by which the Departments identified, for each allocated position, the relevant Scientific Disciplinary Group (GSD) and the corresponding Scientific-Disciplinary Sector (SSD), or confirmed the GSD and SSD for positions already included in the 2024–2026 three-year planning framework;

WHEREAS

by Resolution No. 34/37 of 8 July 2026, the Regional Government of the Autonomous Region of Sardinia allocated, among other measures, three-year funding (2026–2028), drawing on the resources provided under Regional Law No. 7/2007, for the partial coverage of the costs of contracts for 35 tenure-track fixed-term researchers (RTT) – CUP F83C26001750002;

CONSIDERING

that the procedure governed by this call is in line with the University's "Human Resources Excellence in Research" strategy, aimed at

implementing the principles of the European Charter for Researchers, with the goal of fostering an attractive research environment, particularly for “Established Researchers” (R3), through a comparative evaluation of candidates in accordance with the standards of Open, Transparent and Merit-based Recruitment (OTM-R)

ISSUES THE FOLLOWING DECREE:

ART. 1

(Public selections for the recruitment of 17 fixed-term tenure track [RTT] researchers)

The public competitions shown in the following table are to be held at this University for the recruitment of a total of No. 17 Tenure Track Researchers (RTT), by means of a six-year non-renewable employment contract, in accordance with art. 24 of Law No. 240 of 30.12.2010 and the current “*Rules and regulations for the stipulation of fixed-term tenure track researcher contracts (RTT) at the University of Cagliari*”:

N.	Selection code	GSD	Profile (SSD) academic discipline	Department
1	rttAP_29D_0726_02/PHYS-03	02/PHYS-03	PHYS-03/A	Physics
2	rttAP_29D_0726_08/CEAR-02	08/CEAR-02	CEAR-02/A	Civil, Environmental Engineering and Architectural Engineering
3	rttAP_29D_0726_08/CEAR-08	08/CEAR-08	CEAR-08/C	Civil, Environmental Engineering and Architectural Engineering
4	rttAP_29D_0726_09/IIND-07	09/IIND-07	IIND-07/B	Civil, Environmental Engineering and Architectural Engineering
5	rttAP_29D_0726_09/IJET-01	09/IJET-01	IJET-01/A	Electrical and Electronics Engineering
6	rttAP_29D_0726_09/IIND-08	09/IIND-08	IIND-08/A	Electrical and Electronics Engineering
7	rttAP_29D_0726_09/IINF-03	09/IINF-03	IINF-03/A	Electrical and Electronics Engineering
8	rttAP_29D_0726_09/IINF-05	09/IINF-05	IINF-05/A	Electrical and Electronics Engineering
9	rttAP_29D_0726_09/IIND-06	09/IIND-06	IIND-06/A	Mechanical, Chemical and Materials Engineering
10	rttAP_29D_0726_01/INFO-01	01/INFO-01	INFO-01/A	Mathematics and Computer Science
11	rttAP_29D_0726_01/MATH-02	01/MATH-02	MATH-02/B	Mathematics and Computer Science
12	rttAP_29D_0726_03/CHEM-01	03/CHEM-01	CHEM-01/A	Chemical and Geological Sciences
13	rttAP_29D_0726_04/GEOS-01	04/GEOS-01	GEOS-01/A	Chemical and Geological Sciences
14	rttAP_29D_0726_04/GEOS-03	04/GEOS-03	GEOS-03/A	Chemical and Geological Sciences
15	rttAP_29D_0726_03/CHEM-07	03/CHEM-07	CHEM-07/A	Life and Environmental Sciences



N.	Selection code	GSD	Profile (SSD) academic discipline	Department
16	rttAP_29D_0726_05/BIOS-05	05/BIOS-05	BIOS-05/A	Life and Environmental Sciences
17	rttAP_29D_0726_12/GIUR-02	12/GIUR-02	GIUR-02/A	Economics and Business

The forms attached to this notice, as an integral part of it, contain the following information (the forms can be viewed by clicking on the selection code indicated in the above table):

- a) the number of posts requested by the Department;
- b) the selection code to be indicated in the application;
- c) the Disciplinary Area of academic recruitment fields;
- d) the Scientific-disciplinary Group for which the selection has been announced;
- e) the profile, by indicating one or more academic disciplines (SSD);
- f) the name of the Department that requested the post;
- g) the maximum number of publications that can be submitted;
- h) the foreign language of which candidates will have to prove their knowledge;
- i) a description of the research activity to be carried out by the successful candidate;
- j) a description of the teaching activity to be performed by the successful candidate;
- k) a description of the supplementary teaching and student support service activities to be performed by the successful candidate;

For further details on the academic fields and disciplines, please refer to [Ministerial Decree No. 639 of 2 May 2024 published in the Official Gazette of the Italian Republic No. 107 of May 9, 2024](#).

ART. 2

(Admission requirements)

Participation in the public selection procedure referred to in Article 1 is open, without restrictions as to nationality, to candidates holding a PhD degree, or an equivalent qualification obtained in Italy or abroad and who have served as fixed-term researchers of type a) pursuant to Article 24, paragraph 3, letter a), of Law No. 240/2010, as in force prior to the entry into effect of Law No. 79 of 29 June 2022, **recruited under PNRR-funded projects**, whose three-year contract or two-year extension expired in 2025 or 2026 and, in any event, by the closing date of this call for applications.

For the purposes of this call, contracts shall be deemed to be “expiring” in 2025 or 2026 both where they are three-year RTDa contracts commenced in 2022 or 2023 (with the natural expiry of the three-year term occurring in 2025 or 2026), and where they are contracts that were granted a two-year extension commencing in 2023 (with expiry occurring in 2025) or in 2024 (with expiry occurring in 2026). Any early termination of contracts whose scheduled expiry date falls after those years shall not be taken into account.

As specified in Ministerial Decree No. 193/2026, only RTDa researchers whose three-year contracts were **entirely** funded through PNRR-related resources are considered “recruited under PNRR-funded projects”, namely through:

- PRIN 2022 and PRIN 2022 PNRR Calls (Ministerial Directorial Decrees No. 104/2022 and No. 1409/2022)
- Young Researchers 2022 Call (Ministerial Directorial Decree No. 247/2022)
- Young Researchers 2024 Calls (Ministerial Directorial Decrees No. 201/2024 and No. 47/2025)
- Extended Partnerships Call (Ministerial Directorial Decree No. 341/2022)
- National Centres Call (Ministerial Directorial Decree No. 3138/2021)
- Innovation Ecosystems Call (Ministerial Directorial Decree No. 3277/2021)
- Research Infrastructures Call (Ministerial Directorial Decree No. 3264/2021)
- Technological and Innovation Infrastructures Call (Ministerial Directorial Decree No. 3265/2021)

In other words, where an RTDa researcher has already been granted an extension of a three-year contract that would otherwise have naturally expired in 2025 or 2026 (that is, a three-year contract commenced in 2022 or 2023), such extension shall not preclude eligibility to participate in the recruitment procedures under the extraordinary recruitment plan.

In the case of qualifications obtained abroad, applicants must enclose with their application a document certifying that they have been recognised in Italy in accordance with the regulations in force. If the foreign qualification has not yet been recognised as valid in Italy, it is necessary to send a formal [request](#) to the Ministry of Universities and Research - DG for Internationalisation and Communication - Office III - for the recognition of the qualification for the purposes of participation in competitions for researchers in universities and public research institutes, and to attach a copy of this request to the application. In accordance with the rules in force, candidates will be provisionally admitted.

These candidates must also meet the following requirement:

- knowledge of the foreign language indicated on the form, which will be verified by a language test.

Candidates will be exempted from the language test if they can show that they have a certificate of at least level B1 (CEFR) in the foreign language, issued by a certifying body or by a language school or university language centre and obtained no more than five years before the closing date for applications.

Candidates shall be excluded from the selection if, in addition to failing to meet the aforementioned requirements, by the deadline for submission of applications:

- a) are excluded from the enjoyment of civil and political rights;
- b) have been dismissed or removed from employment in a Public Administration for persistently insufficient performance, or have been declared to have lost their position in

another state employment under Article 127, letter d) of Presidential Decree No. 3 of 10.01.1957;

c) are, at the time of submitting the application, related by blood or affinity, up to and including the fourth degree of consanguinity or affinity, to a professor or tenured professor belonging to the department applying for the post, or to the Rector, the Director General or a member of the Board of Directors of the University, or are themselves members of the Board of Directors.

Also excluded from the selection process are those who already hold a permanent contract as a first or second level university professor or researcher, even if their contracts have terminated, and those who have already benefited for at least three years from the contracts referred to in the *“Rules and regulations for the stipulation of fixed-term tenure track researcher contracts (RTT) at the University of Cagliari”*.

This administration guarantees equality and equal opportunities between men and women in terms of access to employment and conditions at work.

ART. 3

(Application for admission)

The application to take part in the selection procedure, as well as the qualifications, documents and publications, must be submitted electronically, under penalty of exclusion, using the special electronic application at <https://pica.cineca.it/>.

The electronic application requires the applicant to have an e-mail address in order to register with the system.

The applicant must enter all the data required to complete the application and attach the documents in electronic PDF format.

The application form must be completed in full, as indicated in the online procedure, and must be accompanied by

- a scan of a valid identity document and a tax code. Non-European citizens must provide a scan of their valid passport;
- the signed and numbered list of qualifications that can be assessed, together with the declaration in lieu of a certificate or affidavit, as provided for in Articles 46 and 47 of Presidential Decree 445/2000, certifying that they are in possession of the above-mentioned documents;
- a signed curriculum vitae of their teaching and academic activities;
- a signed and numbered list of the academic publications attached;
- academic publications;
- any certificate or other evidence of your knowledge of the foreign language(s) specified in the form relating to the competition in which the candidate wishes to take part, of a level at least equivalent to B1 (CEFR), issued no more than five years before the closing date for

registration, and issued by a certifying body, language school or university language centre. In the absence of such a certificate, candidates will be assessed by the Selection Committee;

- any document giving details of the provision certifying that the qualification obtained abroad has been recognised in Italy in accordance with the regulations in force. If such recognition has not yet taken place, the candidate must enclose a copy of the [application](#) for recognition of his/her qualification.

No other form of submission of applications or documentation for participation in the procedure is permitted.

The date of electronic submission of the application for participation in the selection is certified by the computer system by means of a receipt that will be automatically sent by e-mail. Once the deadline for submission has expired, the system will no longer allow access and submission of the electronic form.

Each application will be given an identification number which, together with the procedure code indicated in the computer application, must be specified in any subsequent communication.

The procedure for filling in and sending the application electronically must be completed no later than 23:59 on September 4th, 2026.

The submission of the application must be finalised and completed as follows:

- a) the candidate may register and access the platform using the Italian electronic ID card (CIE) or the Public Digital Identity System (SPID - security level 2), selecting the University of Cagliari from among the organisations listed. If she/he does not have these credentials, she/he may submit a request following the procedures indicated on the website www.spid.gov.it.

When logged in with SPID or CIE, the application can be submitted without the need for a signature and will be accepted automatically by the system.

Alternatively, the candidate may register and log in using the credentials issued directly by the platform or authenticate with her/his LOGINMIUR, REPRISE or REFEREES account, if held.

- b) by means of a digital signature, using smart cards, USB tokens or remote signatures, enabling the holder to sign generic documents using PC-based signature software or a web portal for Remote Signature made available by the Certification Authority. If candidates are in possession of a smart card or a Digital Signature USB token, they can verify its compatibility with the Digital Signature system integrated in the server system. If the result is positive, the holder may sign the application directly on the server (e.g. using ConFirma);
- c) those who do not have compatible digital signature devices or are not Remote Digital Signature Holders having access to a portal for signing generic documents, must save the PDF file generated by the system on their PCs and, without modifying it in any way, digitally sign it in CAdES format (a file with a .p7m extension will be generated) or in PAdES format (a file with a .pdf extension will be generated) and must be uploaded to the system again.

Any alterations made to the file before the Digital Signature has been affixed will prevent the automatic verification of the exact correspondence between the content of this document and the original, which will result in the exclusion of the application.

- d) in the event that one of the above options cannot be used, the candidate must save the PDF file generated by the system on his/her PC and, without modifying it in any way, print it out and affix a fully legible signature on the last page of the printout. This complete document must be produced in PDF format by scanning, and the resulting file must be uploaded to the system.

All applicants must clearly state their surname and first name, date and place of birth, social security number. Married women must indicate their maiden name.

Applicants must also declare on their own responsibility:

1. their residence and domicile;
2. their nationality;
3. that they have not been convicted of any criminal offences, or if they have been convicted of any offences, indicate the details of the judicial sentences, and any criminal proceedings pending against them;
4. to have served as a fixed-term researcher of type a) pursuant to Article 24, paragraph 3, letter a), of Law No. 240/2010, as in force prior to the entry into effect of Law No. 79 of 29 June 2022, **recruited under PNRR-funded projects**, under a three-year contract or a two-year extension expiring during the 2025–2026 biennium and, in any event, by the closing date of this call for applications;
5. that he/she is not a professor/researcher with tenure or has not been and is not currently a professor/researcher, and that he/she has not held for at least three years any contract referred to in the *“Rules and regulations for the stipulation of fixed-term tenure track researcher contracts (RTT) at the University of Cagliari”*.
6. that they are not related, by blood or by affinity up to the fourth degree, to a tenured professor of the department applying for the position, to the Rector, to the Director General, or to a member of the Board of Directors of the University, or that they are not themselves member of the Board of Directors;
7. that they have not been dismissed from the public service for persistent inadequate performance and have not been declared ineligible for public office pursuant to Article 127, letter d) of Presidential Decree No. 3 of 10.01.1957;
8. they are registered on an electoral roll, indicating the municipality and, if applicable, the reasons for non-registration or cancellation; candidates who are nationals of foreign States must declare that they enjoy civil and political rights in the States to which they belong or from which they come, or the reasons why they do not;

9. that they hold a doctorate or equivalent qualification obtained in Italy or abroad and to be / to have been, for at least one year, fixed-term researchers of type a), or, for at least three years, holders of one or more research fellowships pursuant to Article 22 of Law No. 240/2010, awarded by Italian Universities;
10. to authorise the University of Cagliari's Teaching Staff Recruitment Sector to send him/her communications relating to the selection process exclusively by means of the certified e-mail address indicated in the application, and to promptly notify any change thereof;
11. that they have read the information notice on data processing by the University of Cagliari for the category 'Citizens', published on the website https://www.unica.it/unica/it/utility_privacy.page.

The omission of any one of the above declarations will result in exclusion from the selection.
All communication between the Teaching Staff Recruitment Sector and candidates will be exclusively by PEC (certified email).

The University accepts no liability for the non-availability of the addressee, for the loss of communications due to the inaccurate indication of the PEC address by the candidate or due to failure or delay in communicating the change of the Certified Electronic Mail address indicated in the application.

ART. 4

(Presentation of academic qualifications and curriculum)

The following qualifications and experience will be considered:

- 1) PhDs obtained in Italy or abroad;
- 2) teaching appointments at university level in Italy or abroad;
- 3) documented training or research activities at qualified Italian or foreign institutes;
- 4) carrying out of project work in relation to the academic-disciplinary groups where this is expected;
- 5) organisation, management and coordination of, or participation in, national and international research groups;
- 6) ownership of patents in relation to the academic-disciplinary groups in which registration of patents normally occurs;
- 7) participation as a speaker at national and international congresses and conferences;
- 8) achievement of national and international prizes and awards for academic achievement;
- 9) European specialisation diplomas recognised by international boards, in academic-disciplinary groups where such diplomas exist;

Qualifications and publications must correspond to those indicated in the lists in Article 3.

If the above qualifications have been obtained in a public administration or public service, Italian citizens and citizens of European Union countries must provide proof of this by means of a declaration in lieu of a certificate or an affidavit, in accordance with Articles 46 and 47 of



Presidential Decree 445/2000, by completing the facsimile attached to this call for applications. Citizens of States that are not members of the European Union and who have their normal place of residence in Italy may use the declarations in lieu of certification referred to in Articles 46 and 47, limited to information, personal qualities and facts that can be certified or attested by Italian public bodies.

Candidates may use substitute declarations in place of certificates or the act of notoriety, limited to cases where it involves proving certifiable or attestable states, facts, and qualities by Italian public entities authorities.

In all other cases, certificates issued by the competent authorities of the foreign State must be attached. Such certificates must comply with the regulations in force in that foreign State and must also be legalized by the competent Italian consular authorities.

The administration will carry out appropriate checks on the accuracy of the content of the substitute declarations.

Documents not attached because they have already been submitted to this or another administration and referred to in the application will not be considered.

Only the maximum number of publications indicated in the form of the competition in which the candidate intends to participate will be taken into account. In any case, only those publications included in the list attached to the application shall be taken into consideration for evaluation.

The Committee will not consider publications that are different from, or in a different edition to, those listed in the annex to the application form.

In the case of works published abroad, the following information should be provided, if possible: the date and place of publication or, alternatively, the ISBN code or other equivalent. For publications published in Italy before 02.09.2006, the obligations must be fulfilled in accordance with the forms provided for in Article 1 of Lieutenant's Decree No. 660 of 31.08.1945; as of 02.09.2006, the obligations must be fulfilled in accordance with the forms provided for in Law No. 106 of 15.04.2004 and the associated regulation issued by Presidential Decree No. 252 of 3.05.2006, by the deadline for applications.

Documents submitted after the deadline will not be considered.

ART. 5

(Exclusion from selection)

Candidates are provisionally admitted to the selection. The Rector may exclude candidates at any time by a motivated decree.

ART. 6

(Selection Committee)

The Selection Committees, one for each selection, will be composed of three professors, appointed in accordance with the procedures set out in Article 8 of the current *"Rules and*

regulations for the stipulation of fixed-term tenure track researcher contracts (RTT) at the University of Cagliari”.

The appointment of a committee member is limited to two procedures per year.

Professors who are current members of the Board of Directors and the Academic Senate of this University may not be appointed to the Committees. Professors belonging to the same University may not be members of the Committee.

Any committee member who has more than 50% of his/her academic publications in common with work submitted by any of the candidates shall be considered incompatible and must resign, notifying the University in good time.

The Rector, by his own decree, appoints the Selection committee.

The Rector's Decree appointing the Committee will be published on the University website in the recruitment section, and candidates will be duly informed of this publication.

It is a mandatory obligation for members to participate in the work of the Committee, except in cases where there are justified and documented reasons for absence.

ART. 7

(Work of the Committee)

The first meeting of the Selection Committee is convened by the Internal Committee member, following consultation with the committee itself. At the inaugural meeting of the Selection Board, the members shall elect a Chairperson and a minutes Secretary.

The Committee may conduct its meetings via telematic means.

The interview shall be conducted in person, unless otherwise decided by the Selection Committee, which may opt to hold it remotely using appropriate technological tools and measures to ensure the transparency of the proceedings, the identification of candidates, and equal treatment of all participants, while also ensuring the proper and orderly conduct of the oral discussion and guaranteeing the highest possible level of confidentiality of communications.

The assessment of qualifications, curriculum and academic production is carried out on the basis of the following general criteria, which are also recognised internationally and in line with the criteria identified by the Minister's decree:

a) evaluation of qualifications and curriculum:

- a1) PhDs obtained in Italy or abroad;
- a2) teaching assignments at university level in Italy or abroad;
- a3) documented training or research activities at qualified Italian or foreign institutes;
- a4) carrying out of project work in relation to the academic-disciplinary groups where this is normally expected;
- a5) organisation, direction and coordination of, or participation in, national and international research groups;

- a6) ownership of patents in relation to the academic-disciplinary groups in which registration of patents normally occurs;
- a7) participation as a speaker at national and international congresses and conferences;
- a8) attainment of national and international recognition and awards for academic achievement;
- a9) European specialisation diplomas recognised by international boards, in academic-disciplinary groups where such diplomas exist;

b) Evaluation of academic production:

- b1) coherence with the themes of the academic-disciplinary group;
- b2) individual contribution in collaborative work;
- b3) quality of academic publications, assessed within the international research landscape, on the basis of originality, methodological rigour and innovative content;
- b4) academic publishing record in series or journals of national or international importance.
- b5) within the academic disciplines in which it is internationally established, the following indicators will also be used by the committees to assess publications, with reference to the closing date for applications:
 - total number of citations;
 - average number of citations per publication;
 - total 'impact factor';
 - average 'impact factor' per publication;
 - combinations of the above parameters to enhance the impact of the candidate's academic output (Hirsch index or similar)

The numerical weight given to the general criteria will be:

- between 55 and 70 points for the evaluation of academic publications;
- between 30 and 45 points for the evaluation of qualifications and curriculum;

The sum of the individual numerical weights must in all cases be equal to 100 points.

On the basis of the general criteria set out above, the Committee will, at its first meeting, specify and/or detail how they will be applied and the maximum weight to be given to each of them.

The assessment criteria established by the Committee will be published on the University's website and candidates will be notified of the publication. The Committee may not continue its work until five days have elapsed from the date of publication.

Once publication terms have passed, the Committee will have access to the list of candidates and the documents they have submitted for selection.



If there are seven or more candidates for each post advertised, the selection board shall make a preliminary assessment of the candidates on the basis of the criteria laid down by decree of the Minister, which shall conclude with a reasoned analytical assessment of their qualifications, curriculum vitae and academic production, including doctoral or specialisation theses.

Following the preliminary assessment, the most deserving candidates will be invited to a public discussion on their qualifications and academic production, representing between 10 and 20 per cent of the number of candidates, but at least six for each position to be filled.

All candidates shall be admitted to the discussion if their number is six or less.

Admitted candidates will be invited at least 10 days in advance to discuss their qualifications and academic work and, if necessary, to check their knowledge of the foreign language specified in the notice;

The Committee then evaluates the qualifications and each of the publications submitted by the candidates admitted to the interview stage, on the basis of the predetermined criteria. Candidates with a total of 60 points or more will be selected.

At the end of its work, the Committee will draw up a ranking list by majority vote of its members based on the marks obtained by the candidates and will determine the successful candidate in the selection procedure.

The Selection Committee must complete the evaluation procedure within three months of the date of the Rector's appointment decree.

The Rector may extend the deadline for completion of the procedure once only, for a maximum period of one month, for justified and exceptional reasons indicated by the Chairperson of the Committee.

If the time limit for the completion of the work expires without the documents being submitted, the Rector shall declare the Committee dissolved and appoint a new one to replace the previous one.

ART. 8

(Verification of the validity of documents)

The selection documentation shall be approved by Rectoral Decree within thirty days of their delivery to the Offices. The decree approving the documents shall be published on the University website; the candidates and the Department concerned shall be informed of the publication.

ART. 9

(Appointing the successful applicant and stipulation of the employment contract)

The successful candidate shall be called upon by resolution Electrical power systems of the Board of Directors, after the Department concerned has been informed.



The successful candidate shall be invited to sign the fixed-term contract within a mandatory period of ninety days from the date of approval of the selection documents.

If the successful candidate declines the contract or resigns within six months of taking up his duties, the Board of Directors may, after consulting the department concerned, authorise the appointment of another candidate in the order of priority established on the basis of the ranking list drawn up by the Committee.

The contract may be full-time or part-time. When signing the contract, the RTT shall choose between full-time and part-time employment.

The successful candidate must have a digital signature in order to sign the contract.

If a candidate is successful in more than one selection procedure, only one fixed-term researcher contract may be awarded.

The successful candidate will be required to provide the administration with the documents required by the applicable regulations for the purpose of verifying the conditions of access within the deadline set and, in any case, before the signing of the contract.

A six-year, non-renewable, full-time or part-time employment contract under Private Law will be entered into between the University and the successful candidate for the performance of research, teaching, supplementary teaching and student support service activities.

The total annual commitment required of RTTs is that set out in Article 6(1) of Law No. 240/2010, according to the type of work contract. A total of 350 hours must be devoted to teaching, supplementary teaching and student support service activities for the full-time regime and 200 hours for the part-time regime. For the allocation of teaching duties and the related rights and obligations, reference is made to the current *Regulations for the assignment of teaching, supplementary teaching and tutoring duties*.

The contract will specify the procedures for carrying out research, teaching, complementary teaching and student support services activities, to be agreed with the Head of Department, in accordance with what is specified in the call for applications.

The holder of the contract will be entitled to a fixed gross annual salary equal to the initial salary of the confirmed permanent researcher, depending on the employment regime chosen. This salary is increased by 25% for the entire duration of the contract, subject to the evaluation of the research and teaching activities carried out by the Department Council at the end of each year.

The social security scheme is the same as that of a permanent researcher, to which the INPS D.S. contribution is added.

At the end of each year, the RTT will have the opportunity to give a lecture/seminar in the department to which he/she belongs, explaining the teaching and research activities carried out.



At the end of each year, the RTT must also submit a report on the results of the research activity carried out and a report on the teaching activity to the head of the department concerned.

The duration of the contract established with the contractor shall not include periods of maternity, paternity or sickness leave in accordance with the legislation in force, at the request of the contractor.

The provisions set out in paragraphs 9, 10, 11 and 12 of Law 240/2010, which regulate the incompatibilities related to the legal status of researchers and the incompatibilities related to the full-time or fixed-term employment regime, also apply to RTTs. The RTT position is incompatible with any other kind of employment contract with public or private entities, the holding of research contracts (including at other universities or public research institutions), doctoral fellowships and any fellowship for any reason granted by national or foreign institutions. The only exception to this is international mobility for research purposes. During the entire duration of the contract, employees of public administrations will be placed on leave, without salary or social security contributions, or in an out-of-role position if such a position is provided for by their respective regulations.

In the event of early termination of the contract, the fixed-term researcher is required to provide at least 30 days' notice. In the event of failure to provide the requisite notice without adequate justification, the Administration shall be entitled to withhold from the RTT an amount equal to the remuneration for the period of notice not given.

In the event of the contract being terminated prematurely, the remuneration due shall be reduced in proportion to the number of months actually worked.

In the event of a fixed-term researcher terminating their contract prematurely, they are required to submit a report on the results of their teaching and research activities up to the date of termination.

Fulfilling the terms of the contract does not entitle the employee to any specific rights to access positions. It will, however, mean preferential treatment for access to public administration competitions.

ART. 10

(Person in charge of the procedure)

In accordance with Article 5 of Law No. 241 of 7 August 1990, Dr. Enrico Gioffrè, Head of the University's Teaching Staff Recruitment Sector - tel. 070/6752347 - email concorsidoc@unica.it, has been appointed as the person responsible for the procedure, who will ensure that the full procedure is carried out correctly, in accordance with the regulations in force, and that the candidates are informed.

ART. 11



(Processing of personal data)

The University of Cagliari handles the processing of personal data pursuant to the provisions of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 and Legislative Decree 196/2003, Code for the Protection of Personal Data, respecting human dignity, rights and fundamental freedoms of the person. The information on the processing of data relating to the category of data subjects - citizens - is published at https://www.unica.it/unica/it/utility_privacy.page.

ART. 12

(Publication notice)

A full copy of this notice will be published in the Official Gazette of the Italian Republic “- IV special series – competitions”. A complete copy of the notice will be published on the University website, on the MUR website and on the European Union website.

ART. 13

(Reference for selection procedure)

For anything not provided for in this notice, the relevant provisions in force apply.

Cagliari

The Rector
Signed with digital signature



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 1

Number of posts	1	Selection code	rttAP_29D_0726_02/PHYS-03
Disciplinary Area	02 - Physics		
GSD	02/PHYS-03 - Experimental Physics of Matter and Applications		
Profile (SSD) Academic discipline	PHYS-03/A - Experimental Physics of Matter and Applications		
Department	Physics		
Foreign language	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
Research activities in the field of Experimental Physics of Matter, to be carried out in synergy with the laboratory activities currently underway within the Department of Physics.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
Teaching of service courses (including laboratory courses), in accordance with the teaching plan approved annually by the Department of Physics, as well as of specialized Experimental Physics courses within the relevant scientific disciplinary sector.			
Supplementary teaching and student support service activities to be performed by the RTT:			
Assistance in the supervision of Bachelor's, Master's and PhD theses in the field of Experimental Physics of Matter, as well as tutoring activities and the delivery of supplementary lectures according to the teaching needs of the Department of Physics and in connection with introductory Physics courses. Participation in third mission activities planned by the Department of Physics, with particular reference to student guidance and outreach, lifelong learning, and science communication events for the general public.			

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 2

Number of posts	1	Selection code	rttAP_29D_0726_08/CEAR-02
Disciplinary Area	08 - Civil engineering and architecture		
GSD	08/CEAR-02 - Sanitary and environmental engineering, excavation engineering and safety, raw materials engineering, hydrocarbons and underground fluids		
Profile (SSD) Academic discipline	CEAR-02/A - Sanitary and Environmental Engineering		
Department	Civil, Environmental Engineering and Architectural Engineering		
Foreign language	English		
Maximum number of publications that can be submitted		12	
Research activities to be performed by the RTT:			
The research activities assigned to the RTT (Tenure-Track Researcher) will focus on the development of innovative systems for the recovery, valorisation, and circular and sustainable use of waste streams, primarily of an organic nature and of both global and local relevance, through the application of integrated processes. In particular, the RTT's research activity will concentrate on the definition, development, and optimisation of treatment schemes based mainly on biochemical processes, both aerobic and anaerobic (such as dark fermentation and anaerobic digestion), with the following objectives: • recovery of high value-added bioproducts, such as organic acids and biopolymers, as well as biofuels including hydrogen and methane; • integration of innovative biochemical processes with equally innovative chemical, thermochemical, and bioelectrochemical approaches, in order to optimise recovery and valorisation performances from both qualitative and quantitative perspectives, in line with the principles of the circular economy, decarbonisation, ecological transition, and sustainability as a whole; • assessment of the technical-economic and environmental sustainability of the developed processes and their adaptation to local and strategic contexts. The research activities carried out by the RTT will contribute to the advancement of knowledge required for the definition of technological and process-based approaches aimed at reducing the impacts associated with the improper management of waste streams, particularly organic waste, while simultaneously generating new value chains based on renewable and sustainable products and energy carriers. In parallel, the RTT will be engaged in the dissemination and enhancement of scientific results through publication activities in high-ranking international journals, the promotion			



of international scientific collaborations, and technology transfer activities within the framework of the University's third mission.

Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):

Teaching activities shall be carried out primarily within the Bachelor's Degree Programme in Environmental and Land Engineering and the Master's Degree Programme in Environmental Engineering for Sustainable Development, with reference to courses falling within the Scientific Disciplinary Sector CEAR-02/A. Such activities may also be performed within other degree programmes that include courses related to CEAR-02/A, including those offered at branch campuses located throughout the regional territory.

Supplementary teaching and student support service activities to be performed by the RTT:

The RTT shall provide student support and office hours in connection with the courses taught within the Scientific Disciplinary Sector CEAR-02/A, and shall assist students as supervisor or co-supervisor in the preparation of Bachelor's, Master's and PhD theses. The RTT shall also participate in examination boards and degree-awarding committees. Furthermore, the RTT shall contribute to the organisation of orientation activities, seminars, workshops, and open lectures, and shall take part in the institutional activities of both the Department and the University.

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 3

Number of posts	1	Selection code	rttAP_29D_0726_08/CEAR-08
Disciplinary Area	08 - Civil engineering and architecture		
GSD	08/CEAR-08 - Design, architectural technology, architectural engineering and management of built environment		
Profile (SSD) Academic discipline	CEAR-08/C - Technological and Environmental Design of Architecture		
Department	Civil, Environmental Engineering and Architectural Engineering		
Foreign language	English		
Maximum number of publications that can be submitted		12	
Research activities to be performed by the RTT:			
The research activity will be carried out within the research lines of DICAAR, primarily focusing on the following themes: 1. Architectures for research and education: design of large-scale research facilities and innovative projects for school and university buildings; 2. Requalification and regeneration of areas affected by depopulation: projects for rural landscapes and the restoration and enhancement of historic centres; 3. Recovery of modern architecture: studies on construction history, transformation processes, and conservation and rehabilitation projects for modern settlements and buildings; 4. Environmentally sustainable urban regeneration projects and processes, including participatory self-building practices and Nature-Based Solutions (NBS) approaches. Across all these research areas, the studies and contributions of the RTT shall be grounded in a systemic, theoretical-exploratory, process-oriented, and experimental approach aimed at enhancing the quality of architecture, the built environment, and artefacts, in relation to both tangible and intangible cultural heritage, as well as human and natural contexts. Such activities shall be guided by the principles of sustainability, circularity, inclusiveness, accessibility, resilience, and climate neutrality, with particular attention to the relationships between design and construction, and between existing heritage and contemporary architecture. With reference to the specific activities, the RTT shall: • Conduct studies and territorial analyses to improve knowledge of local contexts and support the coherent integration of projects through the mapping of underused and abandoned building assets.			

- Define strategic guidelines for the recovery and adaptive reuse of disused heritage, cultural assets, and sites of landscape and cultural significance.
- Propose processes for environmental, landscape, and territorial regeneration, with particular attention to landscape design and the reconversion of abandoned or declining productive areas (industrial, mining, and rural).
- Develop studies on sustainable construction techniques with low environmental and landscape impact, and, where appropriate, compatible with existing and disused heritage assets.
- Develop new spatial configurations and innovative relationships between form and technology for the conception of sustainable and forward-looking spaces dedicated to research and education.
- Promote teaching and research activities aimed at developing models and spatial devices that foster integration between scientific research and local communities and territories.

The disciplinary contents of the research will concern knowledge, methods, and tools for the planning, pre-design, design, implementation, management, and decommissioning of interventions at different scales. Within this framework, and consistently with the activities of the Scientific Disciplinary Sector (SSD), technology is regarded as an evolutionary factor for achieving architectural, ecological, and technical quality, and for generating habitats capable of addressing climate, housing, social, energy, and productive challenges, within the perspective of ecological and digital transition and according to both environment-centred and human-centred approaches.

Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):

The RTT shall carry out teaching activities in the field of Architectural Technology, particularly within those courses most directly concerned with design-related implications in the Bachelor's Degree Programme in Architectural Sciences (L-17) and the Master's Degree Programme in Architecture (LM-4).

In this regard, all Design Studios that naturally integrate with related disciplines—such as Architectural Design, Architectural History, Conservation and Restoration, Structural Engineering, Urban Planning, and Building Physics—are considered particularly appropriate teaching assignments in which the RTT may be involved. This does not exclude other courses that provide opportunities to develop systemic and integrated approaches to architectural design.

Furthermore, the involvement of the RTT in the teaching activities of the Postgraduate School of Specialisation in Architectural and Landscape Heritage will be considered highly desirable.



Supplementary teaching and student support service activities to be performed by the RTT:

The RTT shall provide academic support and guidance to students throughout their study programmes and shall/may serve as supervisor and/or co-supervisor of Bachelor's and Master's degree theses. The RTT may also be involved in advanced teaching activities within higher education programmes, including Master's programmes, Postgraduate Specialisation Schools, and PhD programmes.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 4

Number of posts	1	Selection code	rttAP_29D_0726_09/IIND-07
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IIND-07 - Thermal sciences, energy technology, building physics and nuclear engineering		
Profile (SSD) Academic discipline	IIND-07/B - Building Physics and Building Energy Systems		
Department	Civil, Environmental Engineering and Architectural Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted		12	
Research activities to be performed by the RTT:			
The scientific commitment of the RTT shall fall within the core areas of the Scientific Disciplinary Sector (SSD) IIND-07/B – Environmental Technical Physics, encompassing both the fundamentals and applications of Technical Physics in the fields of civil, environmental, and energy engineering. The scientific focus will include the fundamentals of lighting engineering and acoustics, as well as the rational use of energy, the exploitation of renewable energy sources, and energy management techniques for buildings and industrial infrastructures. In particular, this area includes studies and experimental activities related to the physics of indoor environments, the measurement and processing of acoustic phenomena occurring in both natural and built environments, building energy performance, environmental comfort issues, passive and active environmental control strategies, and energy systems aimed at improving energy efficiency through both conventional and innovative energy conversion mechanisms. Furthermore, the RTT shall collaborate with national and international research networks and coordinate projects of significant scientific relevance in partnership with other research institutions and/or industrial stakeholders.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching commitment is expected to be carried out primarily within the courses and laboratory activities of the Faculty of Engineering and Architecture, with reference to the subject areas pertaining to the relevant Scientific Disciplinary Sector.			
Supplementary teaching and student support service activities to be performed by the RTT:			



The researcher shall provide assistance to students both in the preparation of examinations within the Scientific Disciplinary Sector IIND-07/B and in the development of Bachelor's and Master's degree theses related to the same Scientific Disciplinary Sector.

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 5

Number of posts	1	Selection code	rttAP_29D_0726_09/IJET-01
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IJET-01 - Electrical Engineering		
Profile (SSD) Academic discipline	IJET-01/A - Electrical Engineering		
Department	Electrical and Electronics Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT shall carry out internationally oriented research activities consistent with the scope of the Scientific-Disciplinary Group 09/IJET-01 – Electrical Engineering, with specific reference to the profile of the Scientific Disciplinary Sector (SSD) IJET-01/A – Electrical Engineering. The research activity will focus on the development of numerical, machine learning, and deep learning tools for the simulation, analysis, and optimisation of systems governed by magnetohydrodynamic (MHD) and electromagnetic equations. An integral part of the research will be the application of the developed methodologies to the study of electromagnetic devices, advanced energy production systems, and the early prediction of faults and anomalies in complex systems. A key component of the research will address issues related to the integration of MHD simulations with data-driven predictive models for energy and industrial applications, including energy conversion devices and non-destructive diagnostics. The methodologies to be developed will include: • numerical modelling of complex phenomena using finite element methods and optimisation algorithms; • development of neural networks and deep learning models for pattern extraction from experimental and simulated data; • development of hybrid physics-based and data-driven approaches aimed at improving the accuracy and robustness of predictions. The RTT shall disseminate the results of their research through scientific publications in high-impact international journals, as well as through presentations at international conferences and workshops.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			



The RTT shall carry out teaching activities within the Bachelor's and Master's degree programmes associated with the Scientific Disciplinary Sector (SSD) IJET-01/A – Electrical Engineering, at the Department of Electrical and Electronic Engineering of the University of Cagliari.

In particular, the teaching activity may include courses related to Fundamentals of Electrical Engineering, Nonlinear Circuits, Modelling and Simulation Techniques, Artificial Intelligence and its Applications to the Energy Sector, and Electromagnetics.

Supplementary teaching and student support service activities to be performed by the RTT:

The RTT shall provide assistance to students both in the preparation of examinations within the Scientific Disciplinary Sector (SSD) IJET-01/A – Electrical Engineering and in the development of Bachelor's and Master's degree theses within the same SSD, also serving as thesis supervisor where appropriate. The RTT shall participate in examination boards and degree-awarding committees, and shall organise, coordinate, and deliver extracurricular activities in collaboration with the other faculty members of the sector. Furthermore, the RTT shall provide support to PhD candidates conducting research in fields related to the researcher's areas of expertise.

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 6

Number of posts	1	Selection code	rttAP_29D_0726_09/IIND-08
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IIND-08 - Electrical energy engineering		
Profile (SSD) Academic discipline	IIND-08/A - Power Electronic Converters, Electrical Machines and Drives		
Department	Electrical and Electronics Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT will be expected to carry out research activities within the Scientific-Disciplinary Group (GSD) 09/IIND-08 – Electrical Energy Engineering, with particular reference to the Scientific Disciplinary Sector (SSD) IIND-08/A – Power Converters, Electrical Machines and Drives. The research activity will focus on the development of innovative methodologies for the design, modelling, control, and experimental validation of advanced power electronic conversion systems intended for the integration of renewable energy sources, electrochemical energy storage systems, smart microgrids, and energy harvesting systems. Particular attention will be devoted to the development of high-efficiency DC-DC and AC-DC-AC static converters, including those based on Wide Band Gap (WBG) semiconductor devices such as GaN (Gallium Nitride) and SiC (Silicon Carbide), with the aim of improving energy efficiency, power density, reliability, and sustainability of power conversion systems. The research activity will also include the development of advanced Energy Management strategies aimed at optimising the integration of renewable energy sources, energy storage systems (batteries and supercapacitors), and electrical loads.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT shall carry out teaching activities within courses belonging to the Scientific-Disciplinary Group (GSD) 09/IIND-08 – Electrical Energy Engineering (SSD IIND-08/A – Power Converters, Electrical Machines and Drives), with particular reference to the courses “Static Conversion of Electrical Energy and Electromagnetic Compatibility” and “Power Electronics for Medical Devices.”			
Supplementary teaching and student support service activities to be performed by the RTT:			
Within the framework of teaching and student support activities, the researcher shall provide assistance to students in the preparation of Bachelor's and Master's degree theses, as well as to PhD candidates engaged in research activities related to the same Scientific			



Disciplinary Sector, thereby contributing to the Department's teaching and research activities.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 7

Number of posts	1	Selection code	rttAP_29D_0726_09/IINF-03
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IINF-03 - Telecommunications		
Profile (SSD) Academic discipline	IINF-03/A - Telecommunications		
Department	Electrical and Electronics Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT shall carry out internationally oriented research activities consistent with the scope of the relevant Scientific-Disciplinary Group, with specific reference to the research areas of the SSD profile, focusing on the design and performance analysis of innovative technologies and solutions in the field of telecommunications. The research activities shall also include participation in national and international research projects conducted by colleagues within the Department's Telecommunications area. In addition, the RTT shall develop new project proposals, both in the fields of fundamental and applied research, aimed at securing national and international funding in the telecommunications sector. Finally, the RTT shall undertake research activities in collaboration with external research groups.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT shall carry out teaching activities primarily within the Bachelor's and Master's Degree programmes offered by the Department of Electrical and Electronic Engineering, delivering specialised courses in the SSD ING-INF/03 (Telecommunications). The RTT shall also undertake organisational and teaching management duties, with particular reference to the Bachelor's Degree Programme in Electronic, Computer and Telecommunications Engineering and the Master's Degree Programme in Internet Technologies Engineering.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The RTT shall carry out supplementary teaching and student support activities, including: • supervision of Bachelor's degree theses;			



- supervision of Master's degree theses;
- supervision of PhD dissertations;
- delivery of seminars and workshop activities for students enrolled in the Department of Electrical and Electronic Engineering's degree programmes and PhD programmes.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 8

Number of posts	1	Selection code	rttAP_29D_0726_09/IINF-05
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IINF-05 - Information Processing Systems		
Profile (SSD) Academic discipline	IINF-05/A - Information Processing Systems		
Department	Electrical and Electronics Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT shall conduct research activities on topics within the Scientific Disciplinary Sector (SSD) IINF-05/A, with particular emphasis on machine learning systems and algorithms, cybersecurity, and computer vision. In particular, the research activity will address: • Artificial Intelligence Security, including the analysis of vulnerabilities of learning algorithms to targeted attacks and the development of robust and trustworthy models; • Cybersecurity, through the development of secure systems for malware detection and analysis, vulnerability detection in software and systems, software analysis and protection, and the management of cyber threat intelligence information; • Biometric Recognition, including the design of reliable identification systems resilient to spoofing and circumvention attempts, as well as the detection of presentation attacks and fraudulent inputs, including on devices with limited computational resources.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT shall carry out teaching activities within courses falling under the Scientific Disciplinary Sector (SSD) IINF-05/A, with particular reference to the Bachelor's Degree Programme in Electronic, Computer and Telecommunications Engineering and the Master's Degree Programme in Computer Engineering, Cybersecurity and Artificial Intelligence. These activities shall include the delivery of classroom lectures, laboratory tutorials and practical sessions, as well as the administration of the related examinations. The RTT shall also hold office hours and receive students to provide clarification and support on the topics covered during lectures, for a number of hours not exceeding the limits established by the applicable laws and University regulations.			
Supplementary teaching and student support service activities to be performed by the RTT:			



The RTT shall support students in the preparation of examinations and in the development of degree theses related to topics within the Scientific Disciplinary Sector (SSD) IINF-05/A. This contribution will include providing guidance on specific subject areas, assisting students in defining their thesis topics, supervising their research and project activities, and reviewing their thesis manuscripts.

In addition, the researcher shall co-supervise PhD candidates in carrying out their research activities and in the preparation of their doctoral dissertations, with particular reference to the PhD Programme in Electronic and Computer Engineering.

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 9

Number of posts	1	Selection code	rttAP_29D_0726_09/IIND-06
Disciplinary Area	09 - Industrial and information engineering		
GSD	09/IIND-06 - Fluid machinery, energy systems and power generation		
Profile (SSD) Academic discipline	IIND-06/A - Fluid Machinery		
Department	Mechanical, Chemical and Materials Engineering		
Lingua straniera	English		
Maximum number of publications that can be submitted		12	
Research activities to be performed by the RTT:			
The RTT will be expected to carry out research activities within the topics covered by the Scientific Disciplinary Sector (SSD) IIND-06/A. In particular, the RTT shall conduct research in the field of experimental analyses of power-generating and operating turbomachinery, aimed at evaluating their performance and characterising local flow conditions within such machines. Furthermore, the RTT's activities will include the design and operation of test rigs, as well as the development of the associated data acquisition systems for measurements on fluid machinery, with the objective of carrying out thermodynamic, fluid dynamic, and energy analyses. Experimental investigations will be complemented by theoretical and numerical analyses aimed at improving machine performance through both geometric modifications and the implementation of innovative control strategies.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT shall carry out teaching activities, including both foundational and advanced courses, as well as student support activities, within the courses associated with the Scientific Disciplinary Sector (SSD) IIND-06/A across the Bachelor's, Master's and PhD programmes in which the Department is currently involved or will be involved in the future. In particular, the teaching responsibilities will concern the field of energy conversion and propulsion machinery, as well as the related design and analysis methodologies. The RTT shall provide assistance to students engaged in the preparation of Bachelor's, Master's and PhD theses on topics related to the field of fluid machinery.			
Supplementary teaching and student support service activities to be performed by the RTT:			



The RTT shall carry out supplementary teaching and student support activities on topics related to the field of fluid machinery.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 10

Number of posts	1	Selection code	rttAP_29D_0726_01/INFO-01
Disciplinary Area	01 - Mathematics and informatics		
GSD	01/INFO-01 - Informatics		
Profile (SSD) Academic discipline	INFO-01/A - Informatics		
Department	Mathematics and Computer Science		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT will be expected to carry out research activities on topics within the scope of Scientific-Disciplinary Group 01/INFO-01, with particular reference to innovative methodologies and approaches in the research areas currently pursued by the Department of Mathematics and Computer Science.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity will consist of delivering courses within the Scientific Disciplinary Sector (SSD) INFO-01/A at the Bachelor's, Master's, and PhD levels.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The supplementary teaching activity, within the framework of the academic programmes offered by the Department of Mathematics and Computer Science, will include the organisation and delivery of tutorials and practical sessions, assistance in examination activities, and the supervision and mentoring of undergraduate, graduate, and PhD students.			



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 11

Number of posts	1	Selection code	rttAP_29D_0726_01/MATH-02
Disciplinary Area	01 - Mathematics and informatics		
GSD	01/MATH-02 - Algebra and geometry		
Profile (SSD) Academic discipline	MATH-02/B - Geometry		
Department	Mathematics and Computer Science		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT will be expected to carry out research activities on topics within the scope of Scientific-Disciplinary Group 01/MATH-02, with particular reference to both geometry and topology of manifolds endowed with transversely complex structures and special metrics.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity will consist of delivering courses within the Scientific Disciplinary Sector (SSD) MATH-02/B at the Bachelor's, Master's, and PhD levels.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The supplementary teaching activity, within the framework of the academic programmes offered by the Department of Mathematics and Computer Science, will include the organisation and delivery of tutorials and practical sessions, assistance with examinations, and the supervision and mentoring of undergraduate and PhD students.			



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 12

Number of posts	1	Selection code	rttAP_29D_0726_03/CHEM-01
Disciplinary Area	03 – Chemistry		
GSD	03/CHEM-01 – Analytical, enviromental and cultural heritage chemistry		
Profile (SSD) Academic discipline	CHEM-01/A – Analytical Chemistry		
Department	Chemical and Geological Sciences		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
Research activity in the field of analytical surface chemistry and electroanalytical techniques. In particular, the RTT shall develop and validate innovative methods for the characterisation of new materials in the field of renewable energy, with particular emphasis on the development and optimisation of coatings resistant to hydrogen permeation. The RTT shall also develop and optimise analytical spectroscopy methods for the analysis of environmental matrices using both traditional techniques (ICP-OES) and surface analysis techniques. The RTT shall design and conduct research and development projects independently, carrying out advanced scientific activities in the field of analytical chemistry. The RTT shall be responsible for the operation and management of medium- and large-scale scientific instrumentation, such as XPS and Auger spectrometers. Research results shall be disseminated through publications in scientific journals recognised according to current national and international evaluation standards, as well as through presentations at national and international conferences.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT shall be expected to carry out teaching activities within the courses belonging to the Scientific Disciplinary Sector (SSD) CHEM-01/A – Analytical Chemistry, offered in the University's Bachelor's Degree, Master's Degree, Single-Cycle Master's Degree, and PhD programmes.			
Supplementary teaching and student support service activities to be performed by the RTT:			



The RTT shall carry out supplementary teaching activities, including seminar-based instruction, as well as provide support for teaching laboratories within courses belonging to the Scientific Disciplinary Sector (SSD) CHEM-01/A – Analytical Chemistry.

The RTT shall also provide assistance in the research activities of trainees, undergraduate and graduate students, fellowship holders, PhD candidates, and research contract staff.

In addition, the RTT shall be involved in training, student guidance and outreach activities, as well as in the University's Third Mission initiatives.



Annex to the selection notice for the recruitment of No. 18 RTT

CARD NO. 13

Number of posts	1	Selection code	rttAP_29D_0726_04/GEOS-01
Disciplinary Area	04 - Earth sciences		
GSD	04/GEOS-01 - Mineralogy, petrology, geochemistry, volcanology, georesources and applications		
Profile (SSD) Academic discipline	GEOS-01/A - Mineralogy		
Department	Chemical and Geological Sciences		
Lingua straniera	English		
Maximum number of publications that can be submitted			15
Research activities to be performed by the RTT:			
Research activities in the field of environmental mineralogy, including the study of mineral transformations, mineral–biosphere interactions, and the characterization of the chemical and structural properties of minerals in both geological and interdisciplinary contexts, with particular emphasis on advanced applications in environmental monitoring and remediation, as well as the development of sustainable technologies. The research activity will be carried out through the combined use of X-ray diffraction (XRD), electron microscopy, and synchrotron radiation techniques, including X-ray fluorescence (XRF), X-ray absorption spectroscopy (XAS), and X-ray microscopy. The research will focus on the development and/or application of innovative experimental techniques for investigations in both fundamental and applied mineralogy, with relevance to sustainable development, industrial waste management, and the rehabilitation and remediation of mining areas. The research activity shall be conducted in collaboration with faculty members of the relevant disciplinary sector within the Department of Chemical and Geological Sciences and shall include a strong commitment to project development and participation in regional, national, and European funding calls. The research is also expected to be pursued in close collaboration with leading national and international research institutions and, where possible, in synergy with ongoing experimental activities already established within the University.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity concerns fundamental mineralogy, applied mineralogy, and environmental mineralogy. In particular, the teaching commitment will focus on courses such as “Advanced Sampling and Analytical Strategies and Techniques” within the Master's			



Degree Programme in Geological Sciences and Technologies (LM-74), and/or on service courses offered to other degree programmes at the University of Cagliari.

Supplementary teaching and student support service activities to be performed by the RTT:

The supplementary activities include participation in degree examination boards, student orientation initiatives, and tutoring activities for students enrolled in the L-34 Bachelor's Degree Programme, the LM-74 Master's Degree Programme, and other degree programmes of the University. In addition, they will include educational seminars within the PhD Programme in Environmental and Territorial Sciences, as well as seminars addressed to students of the University of Cagliari.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 14

Number of posts	1	Selection code	rttAP_29D_0726_04/GEOS-03
Disciplinary Area	04 - Earth sciences		
GSD	04/GEOS-03 - Physical geography, geomorphology and applied geology		
Profile (SSD) Academic discipline	GEOS-03/A - Physical Geography and Geomorphology		
Department	Chemical and Geological Sciences		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
Research activities on topics within the Scientific Disciplinary Sector (SSD) GEOS-03/A, primarily focused on coastal geomorphology and, in particular, on the morphodynamics of low-lying coasts in the Mediterranean environment.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity will involve courses within the SSD at both Bachelor's and Master's degree levels at the University, with particular reference to the subjects of Physical Geography and Cartography, Coastal Morphodynamics and Shoreline Management, GIS Methods Applied to Environmental Dynamics, and Geomorphological Hazards.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The supplementary teaching activities for the Scientific Disciplinary Sector (SSD) GEOS-03/A will include thesis supervision, student support and tutoring, preparation of teaching materials, organisation of practical laboratory activities, and the planning and delivery of field excursions.			



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 15

Number of posts	1	Selection code	rttAP_29D_0726_03/CHEM-07
Disciplinary Area	03 – Chemistry		
GSD	03/CHEM-07 – Medicinal, toxicological, nutraceutical-food, fermentation and health and wellbeing products chemistry		
Profile (SSD) Academic discipline	CHEM-07/A – Pharmaceutical Chemistry		
Department	Life and Environmental Sciences		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The research activity will focus on topics within the Scientific Disciplinary Sector (SSD) CHEM-07/A – Medicinal Chemistry, as well as on related interdisciplinary areas. More specifically, the research will concentrate on the application of Computer-Aided Drug Design (CADD) approaches. In particular, advanced computational methods, including molecular dynamics simulations, virtual screening techniques, and the rationalisation of the activity of biologically active molecules, will be employed. Furthermore, advanced protocols for the management and analysis of data generated from simulations will be developed and applied through integrated computational approaches.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity will involve courses within the Scientific Disciplinary Sector (SSD) CHEM-07/A for Bachelor's degree programmes, Single-Cycle Master's degree programmes, and Master's degree programmes offered by the Department of Life and Environmental Sciences, including PhD programmes and Postgraduate Specialisation Schools.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The supplementary teaching activity will include student support and guidance, complementary activities associated with official courses such as tutorials and practical sessions, participation in examination boards for courses within the disciplinary sector, and student orientation activities both at entry level and throughout the course of study.			

Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 16

Number of posts	1	Selection code	rttAP_29D_0726_05/BIOS-05
Disciplinary Area	05 - Botany		
GSD	05/BIOS-05 – Ecology		
Profile (SSD) Academic discipline	BIOS-05/A - Ecology		
Department	Life and Environmental Sciences		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT shall be expected to carry out research activities in the field of the responses of species and ecosystems to natural and anthropogenic regulating factors and disturbances. Research activities will focus on the study of: a) the functioning of marine and transitional ecosystems; b) the distribution of marine and lagoon species, including non-native species; c) the prediction of species and ecosystem adaptations to climate change.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The teaching activity, in Italian and/or English, will be carried out within courses belonging to the Scientific Disciplinary Sector (SSD) BIOS-05/A – Ecology, offered in Bachelor's and/or Master's degree programmes. More specifically, the RTT will be expected to teach courses such as, among others, Ecology, Applied Ecology, Marine Biology, Applied Marine Ecology, Marine Ecotechnologies, and Ecosystem Restoration. In addition, within the framework of the Department’s teaching programme, the RTT will be required to conduct tutorials and laboratory activities, assist with examinations, and supervise undergraduate and graduate students in areas covered by the SSD BIOS-05/A – Ecology.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The RTT shall carry out supplementary teaching activities (lectures, tutorials, demonstrations, and examinations) covering all general aspects of Ecology, as defined in the Scientific Disciplinary Sector (SSD) BIOS-05/A – Ecology. The RTT shall provide support for the preparation of Bachelor's, Master's, and PhD theses and shall organise, coordinate,			



and deliver extracurricular activities in collaboration with the other faculty members of the sector.



Annex to the selection notice for the recruitment of No. 17 RTT

CARD NO. 17

Number of posts	1	Selection code	rttAP_29D_0726_12/GIUR-02
Disciplinary Area	12 - Law studies		
GSD	12/GIUR-02 - Business and navigation law		
Profile (SSD) Academic discipline	GIUR-02/A – Business Law		
Department	Economics and Business		
Lingua straniera	English		
Maximum number of publications that can be submitted			12
Research activities to be performed by the RTT:			
The RTT shall be expected to participate in research projects in coordination with the other faculty members of the relevant Scientific Disciplinary Sector (SSD) affiliated with the proposing Department.			
Teaching activities that the RTT will be called upon to perform for a maximum of 60 hours (or 90 in the case of a National Academic Qualification-ASN):			
The RTT may teach courses within the relevant Scientific Disciplinary Sector (SSD), including in English.			
Supplementary teaching and student support service activities to be performed by the RTT:			
The RTT shall collaborate with faculty members of the relevant Scientific Disciplinary Sectors (SSDs) in relation to supplementary teaching activities, as well as seminars and conferences dedicated to students.			