



**UNIVERSITÀ DEGLI STUDI  
DI CAGLIARI**

Dipartimento di Ingegneria Elettrica ed Elettronica  
Direttore: Prof. Luigi Atzori



HR EXCELLENCE IN RESEARCH

**Object: DOCUMENTS APPROVAL and AWARD of n. 4 Scholarships.**

**Call n. 1/2026 for the assignment of n. 5 four-months Scholarships to encourage, through training courses, the enrollment of second-cycle students in PhD programmes delivered by the DIEE.**

**DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1, paragraphs 314 – 337) CUP F23C23000060001**

***THE HEAD***

***of Department of Electrical and Electronics Engineering  
of University of Cagliari***

- HAVING REGARD TO** Law no. 168 of 9.05.1989, relating to the establishment of the Ministry of Universities and Scientific and Technological Research;
- HAVING REGARD TO** Law No. 241 of 7.08.1990, “New rules on administrative procedures and the right of access to administrative documents”;
- HAVING REGARD TO** Presidential Decree no. 445 of 28.12.2000, containing legislative and regulatory provisions on administrative documentation and subsequent amendments and additions;
- HAVING REGARD TO** Legislative Decree no. 196 of 30.06.2003, “Personal Data Protection Code”, as amended by Legislative Decree no. 101 of 10 August 2018, laying down provisions for the adaptation of national law to Regulation (EU) no. 2016/679 of the European Parliament and of the Council of 27 April 2016, on the protection of individuals with regard to the processing of personal data, as well as to the free movement of such data and repealing Directive 95/46/EC;



**UNIVERSITÀ DEGLI STUDI  
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DIPARTIMENTO DI INGEGNERIA ELETTRICA ED ELETTRONICA

DIPARTIMENTO DI ECCELLENZA MUR 2023-2027



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- HAVING REGARD TO** Legislative Decree no. 82 of 7.03.2005, “Digital Administration Code” and subsequent amendments and additions;
- HAVING REGARD TO** Legislative Decree no. 198 of 11.04.2006, “Code of Equal Opportunities between Men and Women” and subsequent amendments and additions;
- HAVING REGARD TO** Legislative Decree no. 33 of 14.03.2013, containing “Reorganization of the regulations regarding the obligations of advertising, transparency and dissemination of information by Public Administrations” and subsequent amendments and additions;
- HAVING REGARD TO** Letter f, comma 5 of art. 18 of Law n. 240/2010;
- HAVING REGARD TO** the University Statute, issued with Rectoral Decree no. 339 of 27.03.2012, published in the Italian Official Journal – General Series – no. 89 of 16.04.2012, last amended with Rectoral Decree no. 305 of 28.03.2022, published in Italian Official Journal no. 88 of 24.04.2022;
- HAVING REGARD TO** the Administrative-Accounting Regulations of the University of Cagliari issued with Rectoral Decree no. 37 of 12.11.1991 and subsequent amendments and additions;
- HAVING REGARD TO** the Excellence project of the Department of Electrical and Electronic Engineering 2023-2027, of the University of Cagliari, CUP F23C23000060001 - funded by the Ministry of University and Research, Notice Departments of Excellence 2023-2027 (law 232/2016, art. 1, paragraphs 314 – 337);
- WHEREAS** one of the objectives of the high-quality teaching activities of the Excellence Project of the Department of Electrical and Electronic Engineering is to connect the master's degree programs to the PhD programs, encouraging the initiation of research for second-level students interested in continuing towards the third level;





**HAVING REGARD TO**

Resolution No. 36/2026 of the Council of the Department of Electrical and Electronic Engineering referred to in Minutes No. 04/2026 of February 16, 2026, which approves requests for:

- One scholarship entitled *“Study of RF devices using cutting-edge 2D materials for applications in 5G/6G ICT and IoT”*, requested by Prof. Andrea Giovanni Casula, duration four months, amount of € 4,608.29 gross grant holder;
- One scholarship entitled *“Study of the electromyographic signal applied as biofeedback in contexts of upper limb motor adaptation”*, requested by PhD Dr. Giulia Sedda, duration four months, amount of € 4,608.29 gross grant holder;
- One scholarship entitled *“Development of a Digital Twin prototype for IoT systems in an Edge-Cloud architecture”*, requested by PhD Dr. Claudio Marche; duration four months, amount of € 4,608.29 gross grant holder;
- One scholarship entitled *“AI-Driven RF/MW Modeling for Integrated Sensing and Communication”*, requested by Prof. Alessandro Fanti, duration four months, amount of € 4,608.29 gross grant holder;
- One scholarship entitled *“Adversarial Machine Learning”*, requested by Prof. Battista Biggio, duration four months, amount of € 4,608.29 gross grant holder;

within the call for the assignment of quarterly or four months scholarships to promote, through training programs, the enrolment of second-cycle students in doctoral courses provided by DIEE, delegating the Director to the issuance of the provisions necessary to complete the scholarship award procedures above mentioned.





**HAVING REGARD TO**

Directorial Provision No. 161/2026 of February 26, 2026, issuing Call n. 1/2026 for the assignment of n. 5 four-months Scholarships listed below:

- 1. Scholarship n. 1/2026 entitled “Studio di dispositivi a radiofrequenza basati su materiali 2D di ultima generazione per applicazioni ICT 5G/6G e IoT” / “Study of RF devices using cutting-edge 2D materials for applications in 5G/6G ICT and IoT”, duration four months, Scientific Coordinator Prof. Andrea Giovanni Casula**
- 2. Scholarship n. 2/2026 entitled “Studio del segnale elettromiografico applicato come biofeedback in contesti di adattamento motorio dell'arto superiore.” / “Study of the electromyographic signal applied as biofeedback in contexts of upper limb motor adaptation”, duration four months, Scientific Coordinator Dr. Giulia Sedda;**
- 3. Scholarship n. 3/2026 entitled “Sviluppo di un prototipo Digital Twin per sistemi IoT in architettura Edge-Cloud.” / “Development of a Digital Twin prototype for IoT systems in an Edge-Cloud architecture”, duration four months, Scientific Coordinator Dr. Claudio Marche;**
- 4. Scholarship n. 4/2026 entitled “Modellistica RF/MW per Sensing-Comunicazione con AI” / “AI-Driven RF/MW Modeling for Integrated Sensing and Communication”, duration four months, Scientific Coordinator Prof. Alessandro Fanti;**
- 5. Scholarship n. 5/2026 entitled “Apprendimento automatico avversariale” / “Adversarial Machine Learning”, duration four months, Scientific Coordinator Prof. Battista Biggio;**





to encourage, through training courses, the enrolment of second-cycle students in PhD programmes delivered by the DIEE - DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1, paragraphs 314 – 337) CUP F23C23000060001, published on [unica.it](http://unica.it) - [Borse di Studio](#) on 26<sup>th</sup> February 2026;

**HAVING REGARD TO**

Directorial Provision No. 248/2026 of March 19, 2026 appointing the Selection Committee of the Call n. 1/2026 for the assignment of n. 5 four-months Scholarships to encourage, through training courses, the enrollment of second-cycle students in PhD programmes delivered by the DIEE - DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1, paragraphs 314 – 337) CUP F23C23000060001;

**CONSIDERING**

that no applications have been received for Scholarship n. 1/2026 entitled “Studio di dispositivi a radiofrequenza basati su materiali 2D di ultima generazione per applicazioni ICT 5G/6G e IoT” / “Study of RF devices using cutting-edge 2D materials for applications in 5G/6G ICT and IoT”, duration four months, Scientific Coordinator Prof. Andrea Giovanni Casula;

**CONSIDERING**

Directorial Provision No. 416/2026 of May 6, 2026 del 06/05/2026 of exclusion of a candidate to **Scholarship n. 5/2026 entitled “Apprendimento automatico avversariale” / “Adversarial Machine Learning”, duration four months, Scientific Coordinator Prof. Battista Biggio**, from Call n. 1/2026 for the assignment of n. 5 four-months Scholarships to encourage, through training courses, the enrollment of second-cycle students in PhD programmes delivered by the DIEE DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1,





paragraphs 314 – 337) CUP F23C23000060001, for failure to submit the certificate attesting the possession of the first-level foreign degree, with the list of passed exams, grades and credits, weighted average of the exam grades; if possible, scale used for the grades and minimum value, date of registration and achievement, scale used for the final grade and minimum value, accompanied by translation into Italian or English, required by Article 4 of the call for applications, within the established deadlines, pursuant to the aforementioned legislation and established case law.

**HAVING EXAMINATING** documents and minutes of the selection procedure;

#### ORDERS

##### ART. 1

The attached documents of the Call n. 1/2026 for the assignment of n. 5 four-months Scholarships to encourage, through training courses, the enrollment of second-cycle students in PhD programmes delivered by the DIEE - DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1, paragraphs 314 – 337) CUP F23C23000060001, issued with Directorial Provision No. 161/2026, prot. 64928, of February 26, 2026, and published on [unica.it](http://unica.it) - [Borse di Studio](http://Borse di Studio) on 26 February 2026, are approved.

##### ART. 2

**Scholarship n. 1/2026** entitled “Studio di dispositivi a radiofrequenza basati su materiali 2D di ultima generazione per applicazioni ICT 5G/6G e IoT” / “Study of RF devices using cutting-edge 2D materials for applications in 5G/6G ICT and IoT”, Scientific Coordinator Prof. Andrea Giovanni Casula, **is not awarded due to a lack of applications received.**

##### ART. 3

**Demetra Cimmino**, winner of the selection process, in accordance with the procedures established by current legislation, is awarded the **Scholarship n. 2/2026** entitled “Studio del segnale elettromiografico





**applicato come biofeedback in contesti di adattamento motorio dell'arto superiore.” / “Study of the electromyographic signal applied as biofeedback in contexts of upper limb motor adaptation”, Scientific Coordinator Dr. Giulia Sedda, with starting date 7<sup>th</sup> May 2026. The scholarship, duration four months, pursuant to art. 2 of the call, has a maximum amount of € 4,608.29 gross grant holder and, pursuant to art. 50, paragraph c of the TUIR, is considered income equivalent to employee work and therefore subject to statutory deductions from the scholarship holder. The scholarship will be paid in deferred monthly payments. The scholarship is financed by funds of the DIEE - UNICA Excellence Project funded by the MUR Notice Departments of Excellence 2023-2027 (Law n. 232/2016, art. 1, paragraph 314 - 337). The grant is not cumulative with other grants or allowances of a similar nature. It may not be combined with salaries or remuneration arising from public or private employment relationships.**

**ART. 4**

**Gabriele Carta, winner of the selection process, in accordance with the procedures established by current legislation, is awarded the Scholarship n. 3/2026 entitled “Sviluppo di un prototipo Digital Twin per sistemi IoT in architettura Edge-Cloud.” / “Development of a Digital Twin prototype for IoT systems in an Edge-Cloud architecture”, Scientific Coordinator Dr. Claudio Marche, with starting date 7<sup>th</sup> May 2026. The scholarship, duration four months, pursuant to art. 2 of the call, has a maximum amount of € 4,608.29 gross grant holder and, pursuant to art. 50, paragraph c of the TUIR, is considered income equivalent to employee work and therefore subject to statutory deductions from the scholarship holder. The scholarship will be paid in deferred monthly payments. The scholarship is financed by funds of the DIEE - UNICA Excellence Project funded by the MUR Notice Departments of Excellence 2023-2027 (Law n. 232/2016, art. 1,**





paragraph 314 - 337). The grant is not cumulative with other grants or allowances of a similar nature. It may not be combined with salaries or remuneration arising from public or private employment relationships.

**ART. 5**

**Giovanni Pau**, winner of the selection process, in accordance with the procedures established by current legislation, is awarded the **Scholarship n. 4/2026 entitled “Modellistica RF/MW per Sensing-Comunicazione con AI” / “AI-Driven RF/MW Modeling for Integrated Sensing and Communication”**, Scientific Coordinator **Prof. Alessandro Fanti**, with starting date 7<sup>th</sup> May 2026. The scholarship, duration four months, pursuant to art. 2 of the call, has a maximum amount of € 4,608.29 gross grant holder and, pursuant to art. 50, paragraph c of the TUIR, is considered income equivalent to employee work and therefore subject to statutory deductions from the scholarship holder. The scholarship will be paid in deferred monthly payments. The scholarship is financed by funds of the DIEE - UNICA Excellence Project funded by the MUR Notice Departments of Excellence 2023-2027 (Law n. 232/2016, art. 1, paragraph 314 - 337). The grant is not cumulative with other grants or allowances of a similar nature. It may not be combined with salaries or remuneration arising from public or private employment relationships.

**ART. 6**

**Matteo Cossu**, winner of the selection process, in accordance with the procedures established by current legislation, is awarded the **Scholarship n. 5/2026 entitled “Apprendimento automatico avversariale” / “Adversarial Machine Learning”**, Scientific Coordinator **Prof. Battista Biggio**, with starting date 7<sup>th</sup> May 2026. The scholarship, duration four months, pursuant to art. 2 of the call, has a maximum amount of € 4,608.29 gross grant holder and, pursuant to art. 50, paragraph c of the TUIR, is considered income equivalent to employee





work and therefore subject to statutory deductions from the scholarship holder. The scholarship will be paid in deferred monthly payments. The scholarship is financed by funds of the DIEE - UNICA Excellence Project funded by the MUR Notice Departments of Excellence 2023-2027 (Law n. 232/2016, art. 1, paragraph 314 - 337). The grant is not cumulative with other grants or allowances of a similar nature. It may not be combined with salaries or remuneration arising from public or private employment relationships.

**ART. 7**

**The merit-based ranking**, reported in the minutes of the Selection Committee **for Scholarship n. 5/2026 entitled “Apprendimento automatico avversariale” / “Adversarial Machine Learning”, Scientific Coordinator Prof. Battista Biggio is re-determined, limited to two eligible candidates, in consideration of Directorial Provision No. 416/2026 of May 6, 2026, which ordered the exclusion of one candidate** from the selection process of Call No. 1/2026 for the assignment of n. 5 four-months Scholarships to encourage, through training courses, the enrollment of second-cycle students in PhD programmes delivered by the DIEE DIEE Project of Excellence - UNICA funded by the MUR Notice of Departments of Excellence 2023-2027 (l. 232/2016, art. 1, paragraphs 314 – 337) CUP F23C23000060001

**ART. 8**

The cost of awarding the scholarships referred to in this Call, amounting to €20,000.00, will be included in the budget of the Department of Electrical and Electronic Engineering's Excellence Project under item CO.AN A.06.01.01.01.04.05 project UGOV UGOV DIEE\_ECCELLENZA\_2023-2027\_ATTIVITA\_DIDATTICHE;

The Head of the Department  
Prof. Luigi Atzori  
*Digitally signed*





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