



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI
INGEGNERIA DELL'ENERGIA ELETTRICA
E DELL'INFORMAZIONE "GUGLIELMO MARCONI"

**"CALL FOR APPLICATIONS" FOR 2 SCHOLARSHIPS TO CARRY OUT A LEARNING
EXPERIENCE ABROAD AT ESTEC – European Space Research and Technology Center
I/2024**

Art. 1

Scope of the "Call for applications"

The contract "5G LAB EXPERIMENTATIONS AND ANALYSIS" has been stipulated between the Unibo's Department of Electrical, Electronic, and Information Engineering – DEI and the European Space Agency – ESA (The Netherlands). In its framework it is launched a "Call for applications" for 2 scholarships to finance a 3-month learning experience abroad at ESTEC – European Space Research and Technology Center – Noordwijk (The Netherlands).

Art. 2

Participation requirements

This "Call for applications" is open to those falling in one of the categories detailed down below:

1. **Students** enrolled in 2023/2024 in the first year, second year or "fuori corso" on one of the following Master's Degrees:
 - o LM 9205 – Telecommunications Engineering
 - o LM 0934 – Ingegneria Elettronica
 - o LM 8770 – Ingegneria Elettronica e Telecomunicazioni per l'Energia (Cesena Campus)

Moreover, they must have registered at least **15 ECTS** credits in their career and have a CGPA no lower than **27/30**.

Students enrolled in the A.Y. 2022/2023 in the first year of the course can send off their application even if not yet enrolled in the second year. Should they be declared winners, they must finalize their enrollment within 10 days from the publication of the ranking, otherwise they will forfeit the scholarship.

2. **Graduates** in one of the Master's Degrees set forth on point 1, who received the degree over the last 18 months, on condition their final CPPA was no lower than **27/30**.

Applicants must satisfy the participation requirements by the deadline of this "Call for applications".

Art. 3

Application procedure

Students and Graduates have to send off their application on Studenti Online (SOL) in the following timeframe:

April 4th – April 22nd, 2024 by 12.00 (noon)

Applicants should enclose the following documents:



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- CV/résumé
- Master's Degree's transcript of records (TOR). Applicants will be able to select and enclose the TOR already available on the system.

As far as the aforementioned documents are concerned, Candidates should be aware that:

- a) Italian and EU citizens can self-certify academic and professional degrees under articles 46 and 47 of the DPR 445/2000;
- b) Non-EU citizens regularly residing in Italy - as well as those entitled to live in the territory of the Republic - should abide by the subparagraphs 2 and 3 of the article 2 of the DPR 445/2000;
- c) Apart from the previous points a) and b), personal facts & information should be proved by certificates issued by competent foreign authorities, along with authenticated translation by the Italian consular authority;

Art. 4

Scholarship's amount and length of the staying

Each scholarship - seen as a mean to financially support students at ESTEC - amounts to **6,000 euros** (gross), to which University tax obligations as well as student tax obligations are to be deducted.

Such amount will be transferred in two installments by Department of Electrical, Electronic, and Information Engineering – DEI:

- The first installment (3,000 euros) within 10 days of the start of the mobility, upon confirmation of Prof. Alessandro Vanelli Coralli (head of the project) that the grantee arrived at ESTEC;
- The second one (3,000 euros) at the end of the activity, upon confirmation of Prof. Alessandro Vanelli Coralli (head of the project) that the activity has been successfully completed.

In case of limits to international mobility (for instance, pandemic-related), the Department can work out afresh the scholarship according to the actual length of the period abroad. No amount shall be paid if the staying at ESTEC does not take place altogether.

It is worth mentioning the staying abroad will last roughly 3 months, the start and end of it to be agreed with the ESTEC. The experience should anyway finish off by November 30th, 2024.

Art. 5

Evaluation Committee

The Evaluation Committee shall be appointed by the Department's Council.

Art. 6

Selection criteria

Applicants shall be evaluated against the following criteria:

- **Records (max 60 points out of 100)**: the number of exams registered, the CGPA as well as other achievements shall be considered (for instance, scientific papers);
- **Interview (max 40 points out of 100)**: the interview shall evaluate the Applicants'



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motivations as well as their technical skills related to the ESTEC's thesis topics (see the following article 7).

In order to be admitted to the interview, Applicants must obtain at least 30 points out of 60 on the records, whereas they need to obtain at least 20 points out of 40 in order to pass the interview.

In order to be eligible, Applicants must get an overall score (records + interview) no lower than 50 points out of 100.

Should 2 or more applicants get the same score, their age shall determine their position (i.e., the your one precedes).

Art. 7

Interviews and selection's results

The Evaluation Committee will evaluate applicant's records in order to determine those admitted to the interview, such a list to be published on Studenti online by **April 30rd, 2024**

Interviews shall take place on **May 7th, 2024**, possibly online. Those not showing up to the interview will be excluded from the procedure.

The interview – to be carried out in Italian and English - will assess applicants' interest and competence related to the following issues put forward by ESTEC:

- 5G and 6G telecommunications systems and networks
- Satellite telecommunications systems and networks
- Signals elaboration
- Antennae
- Radio propagation
- Electronic systems for telecommunications
- Software simulation platforms
- Coding languages
- Open Air Interface

Following the interview, the Evaluation Committee will draw up the final standing, to be published on Studenti online by **May 10th, 2024**.

Art. 8

Scholarship's acceptance and winners' appointment

The Department will get in touch with winners, who will be required to accept the scholarship according to the conditions set forth on this "Call for applications".

Should a winner gives up their position, the next eligible applicant will be appointed.

Winners will be appointed through a decree issued by the Head of the Department.



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Art. 9

Incompatibility circumstances

Under no circumstances grantees may benefit from another scholarship issued by the Alma Mater Studiorum – University of Bologna for the same period and the same goal.

Art. 10

Forfeiture

Grantees will forfeit their scholarship if – by the end of the second year – they alternatively:

- Withdraw from the university;
- Transfer to another degree programme or University;
- Not having finished off the experience by the deadline set forth on art. 4.

Any sum already received shall be paid back.

Art. 11

Personal data

Personal data enclosed in the applications will be processed with fairness and for call-related purposes only, taking into account rules & regulations set forth on the *Personal Data Protection Act* (Legislative Decree 196/2003 – English version of the decree is available [at this webpage](#)) and on Regulation (EU) 2016/679 - *General Data Protection Regulation*.

Data processing will be carried out with ICT as well as paper means. Personal data must be compulsorily provided in order to participate in this “Call for applications”.

Data controller is the Alma Mater Studiorum – University of Bologna with admin headquarters in Via Zamboni, 33 – 40126 Bologna. The Director of the DEI Department is the leading authority concerning the rights set forth in the article 7 of the aforementioned Personal Data Protection Act (“*Right to Access Personal Data and Other Rights*”)

Art. 12

Publication and legal disclaimer

This “Call for applications” is published on www.bandì.unibo.it.

The leading authority of this procedure – according to article 5 of the Law 241/90 - is Mrs Barbara Di Placido.

Please be aware this document has been created for information purposes only. In the event of claims and legal issues, each “Call for applications” in Italian shall prevail.

The Head of the Department
Prof. Riccardo Rovatti