University of Padova – Department of Information Engineering

Selection announcement for the awarding of 1 research fellowshipentitled:

Design, analysis and

development forward error correction (FEC) schemes for underwater

acoustic networks

Selection announcement n. 26/2025

Candidates shall also refer to the forms and documentation related to the selection announcement available at the links hereunder:

https://www.dei.unipd.it/node/49297

Having regard to par. 4 of Art. 80 of the University's "Regolamento di Ateneo per l'amministrazione, la finanza e la contabilità" (Regulations Governing Administration, Finance, and Accounting) and "Regolamento delle borse per lo svolgimento di attività di ricerca", (Regulations Governing Research Fellowships) a selection announcement has been published for the awarding of [enter number 1 research fellowship at the Department Information Engineering under the supervision of Prof. Michele Zorzi , Research Project Supervisor. The research fellowship shall last for 6 months.

The research fellowship shall be for a total amount of € 8000 financed by PNRR: RESTART: RESearch and innovation on future Telecommunications systems and

networks, to make Italy more smART Missione4"Istruzione e ricerca" – Componente 2 "Dalla ricerca all'impresa" – Investimento 1.3, PNRR PE14, Spoke 6: Innovative Architectures and Extreme Environments CUP del progetto: C93C22005250001 and will be paid in deferred monthly instalments.

The project

involves the design, analysis and optimization of forward error correction

(FEC) schemes for underwater acoustic networks. The selected FEC

schemes will be implemented in C/C++ and evaluated in simulation and

sea trial. In the selection of the FEC schemes, both their ability to correct

errors and their computational complexity shall be taken into account.

ADMISSION REQUIREMENTS

Master's degree (Laurea magistrale o specialistica in ambito ingegneristico o informatico) (The elegibility of qualifications awarded abroad will be verified by the Selection Committee.)

Required skills:

Conoscenze informatiche

_algoritmi e software per protocolli di rete, C/C++, ns-2

conoscenze di base di sistemi e protocolli di comunicazione, conoscenza delle problematiche legate ai

sistemi di comunicazione sottomarini

Incompatibility

The fellowships within this announcement may not be combined with:

- other research grants ;

- fellowships of any other kind, with the exception of those awarded by national or foreign institutes to integrate, with periods abroad, the specific research activities required by this announcement.

In the case of self-employed, employed or parasubordinate employed, compatibility shall be determined by the Research Project Supervisor.

Research Fellowship Holder may not have family or kinship relationships up to the fourth degree with lecturers or researchers working at the Department elected as "Research Base", or with Rector, or Director General, or a member of the University Board of Governors.

Procedures for submission of application form

The deadline for submitting the application form is 10/04/2025 at 12.30

The application form to use is available at the link indicated on the selection announcement https://www.dei.unipd.it/node/49297

Alternatively, it can be submitted as follows:

1) delivered in person to the Administrative Secretariat of the Department of Information Engineering at the following address: Via Gradenigo 6/b, 35131 Padova

2) posted by registered mail with advice of receipt to the following address: Department of Ingormation Engineerin , Via Gradenigo 6/b, 35131 Padova   the application must be received no later than 12.30 pm on 04/19/2024

3) sent by certified e-mail (PEC) to dipartimento.dei@pec.unipd.it [pec e-mail address of department].

The envelope or subject heading of the email must indicate the following: "Selection Announcement for the Awarding of Research Fellowship -" *insert the title of the research*

fellowship" with the Department of Information Engineering

The application must include:

a) A dated and signed Europass CV, available at the link indicated on the selection announcement;

b) a photocopy of a valid identity document (Identity Card or Passport);

c) any other document, qualification or publication useful for the selection process.

Selection procedure

Candidates' applications shall be evaluated by a Selection Committee that will be nominated in accordance with the "Regulations Governing Research Fellowships," on the basis of their qualifications.

Prior to assessing candidates, the Selection Committee shall establish the maximum score, criteria and the procedure to be used in evaluating qualifications

At the end of the selection process, the Selection Committee shall send the report to the Head of the Department/Centre for approval.

After verifying the legality of the deeds, the Head of Department/Center shall approve by decree the ranking order and the awarding of the research fellowship.

The administrative office of the Department/Center that issued the selection announcement shall notify the successful candidate.

The winner must accept the award within ten days of notification. Otherwise the winner shall forfeit the right to the research fellowship. In case of renunciation, the fellowship will be awarded to the next eligible candidate, according to the ranking order.

The ranking order will be published on the Department web page at the following

and on the University's website.

Return of Documents and Publications

Any documents and publications sent to the University can be returned at the applicant's expense after two months from the completion of the selection process, subject to any ongoing litigation.

Processing of personal data

In accordance with Legislative Decree no. 196 dated 30 June 2003 and s.m.i, it is hereby stated that any data provided, in print or electronic format, shall be handled only for the purposes of this announcement and the entering into and managing of the relationship with the University.

The person responsible for administrative proceedings

In accordance with Art. 5 of Law no. 241 dated 7 August 1990, the person responsible for the selection process (RPA) is Sabrina Michelotto who can be reached at the Department , at the e-mail address bandi@dei.unipd.it

Final provisions

For anything not specified in this selection announcement, see the University of Padova's current regulations regarding the awarding for research fellowships.

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