

ANNOUNCEMENT OF SELECTION N. 181/2023

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ANNOUNCEMENT OF COMPARATIVE PROCEDURE FOR THE IDENTIFICATION OF A PERSON TO WHOM ENTRUST (1) A SCHOLARSHIP

Subject

High-bit-rate Transceivers for Radiation-Hard Applications

Detailed Description

Silicon photonics (SiPh) shows considerable potential as a radiation-hard technology for building high-speed optical transmission links to send data across radiation-rich environments, e.g., space, nuclear power plants and particle physics detectors. In the last decade, preliminary results have shown that SiPh circuits can effectively operate in environments with large ionizing radiation, such as it is expected in high-energy physics experimental runs. State-of-the-art SiPh transceivers are nowadays designed and qualified for commercial terrestrial optical systems, while SiPh-based high-speed transceivers operation in radiation-rich is not yet well explored.

The goal of the proposed research activity will be the investigation of radiation tolerance in custom SiPh devices and systems to be operated in experiments which require tens of Gb/s data bandwidth.

Method of Execution

The collaborator will act independently although progress meetings will be scheduled with the Scientific Manager and other members of the project team. The collaborator will have to carry out the activities at the CNIT Research Unit of Photonic Networks and Technologies's National Laboratory, Via Moruzzi n.1, 56124 Pisa (PI), and will be able to use the equipment made available by the Consortium.

Expected output.

Monthly reports.

Data Controller

The data controller is Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT) based in Viale G.P. Usberti n. 181/A, 43124 Parma (PR) pec: cnit@pec.it tel: 0521/905757

Purposes and methods of processing

Pursuant to Article 13 of Regulation (EU) 2016/679, we inform you that this Consortium is the controller of the personal data provided by you and that the processing thereof will be carried out in compliance with the aforementioned European regulation for the purpose of fulfilling the publication obligations pursuant to Article 15 of Legislative Decree 33/2013 and subsequent amendments and supplements.

The data may be used and stored exclusively for the fulfilment of legal obligations related to the assignment of the task. The provision of data is mandatory for these purposes. The data will be processed by Consorzio CNIT, as data controller, in compliance with the provisions of the Regulation (EU) 2016/679 in the manner set out in the attached information notice.

The undersigned is informed that he/she may in any case and at any time, pursuant to Art. 15 ss. of Regulation (EU) 2016/679, check their personal data collected by the Controller and have them correct, update or delete them by contacting the Data Protection Officer who can be contacted at the following addresses: direzione@cnit.it, cnit@pec.it.

Your attention is drawn to the fact that in the event of non-compliance with Regulation (EU) 2016/679 you may lodge a complaint with the Data Protection Authority.

“FREE AVAILABILITY CALL”

1) **Recipient:** afferent personnel to CNIT;

2) **Activity Reference Location:** CNIT Photonic Networks and Technologies's National Laboratory Via Moruzzi, 1 - 56124 Pisa

3) **expected duration of the service:** 12 months

“REMUNERATED AVAILABILITY CALL”

a) **recipient:** Experts in the subjects covered by the service;

b) **required qualifications:** Master's degree in telecommunications engineering or

c) bachelor's degree in physics or master's degree in electrical engineering or equivalent foreign degrees

d) **activity Reference Location:** CNIT Photonic Networks and Technologies's National Laboratory of Via Moruzzi, 1 - 56124 Pisa

e) **expected duration of the service:** 12 months

f) **amount of payment agreed upon gross amount collaborator:** € 18.000,00 (Euro eighteenthousand/00)

All fees are gross of withholding taxes, social security and welfare contributions payable by the collaborator.

Method of application

The APPLICATION FOR ADMISSION TO THE SELECTION drawn up on simple paper according to the outline in Annex A or B, must be received by CNIT at the e-mail address: direzione@cnit.it indicating in the subject line "**APPLICATION FOR ADMISSION NOTICE N.181/2023**" for which you intend to participate, strictly by the deadline present on the CNIT website www.cnit.it in the section "Jobs/career" - " Borse di Studio e Dottorati".

Among all applications received, those forwarded by CNIT afferent personnel for the assignment of the position "free of charge" will have priority for evaluation. In the absence of available and suitable CNIT afferent personnel, applications received from personnel from outside CNIT for the remunerated assignment will be evaluated.

The following must be indicated in the application, under one's own responsibility: surname and first name, date and place of birth, citizenship, residence, home address for the purpose of the selection, and telephone number.

Aspiring candidates, who will respond to the call for remunerated availability, must attach to the application a curriculum vitae et studiorum and a copy of a valid identity document.

The Commission that will handle the selection, will be appointed by the Director of CNIT and will be composed of experts with proven expertise in the field.

At the end of the evaluation, the Commission will identify the suitable person, with the approval of the acts by the Director, in order to proceed to the conclusion of the contract. The evaluation does not give rise to judgments of suitability and in no case constitutes a ranking list.

The candidate declared eligible will have to sign the contract, in accordance with the provisions of the "Regolamento per il conferimento a terzi di incarichi di collaborazione esterna" in force.

The CNIT reserves the right to not proceed with the conferment of the assignment either for free or remunerated, if the applications received are not suitable in relation to the object of the contract and the requirements. CNIT reserves the right not to activate the contract if the need, convenience, or expediency no longer exists.

(Signed: the Director of CNIT)

**APPLICATION FOR ADMISSION TO THE SELECTION BY COMPARATIVE PROCEDURE
NO.181/2023 FOR THE IDENTIFICATION OF A PERSON TO WHOM ENTRUST (1) A
SCHOLARSHIP**

**FREE CALL
ANNEX a)**

To
Director of the CNIT
the undersigned
birth city date,
place of residence..... - Prov. C.A.P., Via
..... n.
E-mail address: tel.:.....
CNIT afferent at the Research Unit of.....

Any other domicile for the purpose of communications relating to this announcement of selection:
.....

REQUESTS:

to be admitted to the selection "free of charge" by comparative procedure for the assignment's conferment of:
(please tick the option chosen)

- professional collaboration
- occasional collaboration
- coordinated and continuous collaboration
- scholarship

For this purpose, he/she declares under his/her own responsibility, in accordance with Articles 46 and 47 of D.P.R. 445/2000, aware of the penal sanctions provided for in Article 76 of D.P.R. e 445/2000, for the hypothesis of falsehood in acts and false statements:

- 1) to be a citizen
- 2) to be registered in the electoral rolls of the municipality of
- 3) that have no criminal convictions or, that have the following criminal convictions:.....with measures of
- 4) that I possess the following educational qualification:.....

I authorize the processing of data in accordance with Legislative Decree 30/06/03 n. 196 and Reg.UE 2016/679

Date _____

Signature _____

The data provided will be processed for the purposes of management of the comparative evaluation procedure - D.Lgs 30/06/2003 n.196 and Reg.UE 679/2016. Full disclosure www.cnit.it

**APPLICATION FOR ADMISSION TO THE SELECTION BY COMPARATIVE PROCEDURE
NO.181/2023 FOR THE IDENTIFICATION OF A PERSON TO WHOM ENTRUST (1) A
SCHOLARSHIP**

**REMUNERATED CALL
ANNEX b)**

To
Director of the CNIT
the undersigned,
birth city date,
place of residence..... - Prov. C.A.P., Via
..... n.
E-mail address: tel:.....
CNIT afferent at the Research Unit of.....

Any other domicile for the purpose of communications relating to this announcement of selection:
.....

REQUESTS:

to be admitted to the selection "free of charge" by comparative procedure for the assignment's conferment of:
(please tick the option chosen)

- professional collaboration
- occasional collaboration
- coordinated and continuous collaboration
- scholarship

For this purpose, he/she declares under his/her own responsibility, in accordance with Articles 46 and 47 of D.P.R. 445/2000, aware of the penal sanctions provided for in Article 76 of D.P.R. e 445/2000, for the hypothesis of falsehood in acts and false statements:

- 1) to be a citizen
- 2) fiscal code:..... ;
- 3) to be registered in the electoral rolls of the municipality of
- 4) that have no criminal convictions or, that have the following criminal convictions:.....with measures of and that I have/have no pending criminal proceedings;
- 5) to possess the following educational qualification:.....
- 6) to be/not be an employee of a public administration:.....
- 7) that he/she is suitable for the performance of the activity;
- 8) that what is stated in the curriculum is true.

For the purpose of evaluation he/she attaches to this application:

- curriculum vitae and studiorum
- copy of an identification document
- copy of social security number.

I authorize the processing of data in accordance with Legislative Decree 30/06/03 n. 196 and Reg.UE 679/2016

Date _____

Signature _____

The data provided will be processed for the purposes of management of the comparative evaluation procedure - D.Lgs 30/06/2003 n.196 and Reg.UE 679/2016. Full disclosure www.cnit.it