



**Prot. n. 329 del 18/10/2019**

**Expression of interest for the procedure concerning the development and supply of instruments framed in the context of the research project: CNOS (Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo) - POR CAMPANIA FESR 2014/2020 CUP B81C17000050007 - SURF 17063BP000000001**

Expression of interest for the procedure concerning the development and supply of:  
**SPECTROSCOPIC IMAGING ELLIPSOMETER**

GIVEN THAT

- From an exploratory market investigation, it emerged that for the supply in question, Spectroscopic Imaging Ellipsometer (main technical characteristics and minimal features are listed below), there's an only supplier company that provided a quotation;
- CeRICT srl intends, in any case, to carry out an Expression of interest in compliance with the principles of non-discrimination, equal treatment, proportionality and transparency, for the subsequent awarding, through the completion of the tender procedure, of the aforementioned activities;

CeRICT srl announces the present expression of interest with the aim of acquiring adhesions from suitable subjects in order to carry out, subsequently, a tender procedure below the threshold pursuant to the regulation acquired by CeRICT srl and published on the website of the structure [www.cerict.it](http://www.cerict.it). Operators who have expressed their interest and are in possession of the requirements set forth in this notice may be invited to this procedure, who will be required, with a subsequent letter of invitation, to present an offer by comparing it with that presented by Accurion GmbH and acquired by CeRICT srl.

**Main technical characteristics and minimal features:**

- Spectroscopic imaging nulling ellipsometer
- Motorized z-lift stage for sample with travel > 100 mm and resolution of 1  $\mu\text{m}$
- Automatic sample handling stage with travel range of 100 mm and resolution of 1  $\mu\text{m}$
- Automatic software controlled goniometer to enable variable angle measurements in the range 38°-90° and resolution of 0.001°
- Focus scanner to enable fully focused images
- 5x objective with FOW: 0.8 mm and lateral resolution down to 4  $\mu\text{m}$
- 10x objective (LWD) with FOW: 0.4 mm and lateral resolution down to 2  $\mu\text{m}$
- 20x objective with FOW: 0.2 mm and lateral resolution down to 1  $\mu\text{m}$
- 50x objective with FOW: 0.07 mm and lateral resolution down to 0.6  $\mu\text{m}$
- Spectroscopic unit that cover the wavelength range: 360 nm – 1700 nm
- CCD camera as detector



- Solid/liquid cell for adsorption experiments at non-transparent substrates with temperature control in the range: 5°C – 75°C with a resolution of 0.1°C
- Complete software suite to control the instrument without license time limitations

### **Procurement procedure**

The selection of competitors who responded to "Expression of interest" will occur by a budget procedure through the principle of better score.

### **Participation requirements**

Economic operators wishing to participate have meet the requirements set forth in points 1 and 2 below, and have provide the information referred to in points 3 and 4 below:

1. General requirements: non-existence of the causes of exclusion from participation in tenders pursuant to art. 80 of Legislative Decree 50/2016;
2. Professional suitability requirements: registration with the C.C.I.A.A., or, for foreign economic operators, equivalent certification;
3. Information on economic / financial capacity: global turnover and amount relating to supply similar to that covered by this expression of interest for the last two years;
4. Information on technical and professional capacity: presentation of the list of the main furniture presented in the last two years with the indication of the articles, dates and recipients, public or private, of the services and / or furniture themselves.

Due to the complexity and specificity of the service to be entrusted the aforementioned requirements have been requested in order to select an operator that guarantees the performance of the service, with maximum reliability, in the time required.

The lack of possession, even of one of the only requisites, determines the failed invitation to the subsequent procedure.

The maximum number of economic operators invited to the procedure is eight.

A minimum number of participants is not required for the validity of this market survey. The investigation does not give operators any reliance on the subsequent invitation to the procedure.

The Contracting Authority reserves the right to suspend, modify or cancel the procedure relating to this notice and not to follow up any negotiated procedures for the assignment of works.

### **Duration**

The supply have be effected within and no later than 28/02/2020.

### **Estimated amount**

The total maximum amount is Euro 210.000 (two hundred ten thousand/00) plus VAT.

### **Technical and economic evaluation criteria**

The supply will be awarded according to the criterion of the most economically advantageous offer, with the assessment methods that will be explained in the technical-administrative specification that will be attached to the invitation letter. As a preliminary point, it should be noted that the CeRICT



will assign a maximum of 100 points to each offer, of which a technical score of a maximum of 70 (seventy) points as established by a technical commission, and an economic score of a maximum of 30 (thirty) points.

### **How to present the expression of interest**

The eligible subjects have to send the following documents in response to the "Expression of Interest":

- Attachment 1 – The declaration of adhesion to the expression of interest;
- Attachment 2 – Economic and financial capabilities document;
- Attachment 3 – Technical and professional capabilities document;
- Certificate of incorporation/Company's chamber of commerce registration.
- Photocopy of subscriber's valid identity document, according to the articles 38 and 47 of DPR 445/2000
- Any other relevant document.

All documents must be received by CeRICT srl:

- By certified mail to the address [cerict@pec.it](mailto:cerict@pec.it) within 18/11/2019; the object must contain the reference to this expression of interest Prot. N. 329.

### **Advertising**

The communication platforms identified for this procedure consist of certified electronic mail and publications on computer sites.

Any additional information and / or clarifications on this notice must be requested exclusively by e-mail to the [cerict@pec.it](mailto:cerict@pec.it) box.

### **Head of procedure**

The head of procedure is Prof. Antonello Cutolo.

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## References

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## ANNEX 1

### CNOS Abstract

**(Nanophotonics and Optoelectronics Center for Human Health)  
(Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo)**

This project aims **to develop a National Research Infrastructure capable of developing Scientific Research of Excellence for fighting Oncologic Pathologies, using as enabling technology Optoelectronics and Nanophotonics.**

Supported by the growing and continuous development of nanotechnologies, nano-bio-photonics in the latest decades has led to a real technological revolution in the healthcare sector.

The unique ability of light to interact with matter on a Nano metric scale can be exploited to perform molecular-level analysis, favouring on one hand a greater understanding of the origin of the disease (for the prevention and diagnosis) and on the other hand providing new techniques and approaches for treating the diseases themselves. Nano-scale integration of bio-photonic components and devices allows performing detections and measurements quickly, sensibly and accurately and results to be particularly useful for *point-of-care* applications.

The aforesaid proposal was born to underline the impression that **advanced technology and innovation can provide a real driving force for the fight against oncological pathologies.**

The CNOS wants to become an IR characterized by a high technological and scientific potential, able to promote and rule the **scientific quality** and the **technological quality**.

Taking advantage of a team of excellence researchers, a good mix of young people and exciting researchers in various fields of IR interest and expert researchers at international level, the CNOS is thought as an IR with a high scientific and technological potential, able **to dialogue with the most qualified national and international structures** in the field of oncologic research, with the specific purpose of producing innovation and able to:

- Stimulate the excellence research in the fight against oncological pathologies in important strategic areas;
- Promote cultural activities, scientific research and technological development both in terms of advancing knowledge and service to the local community;
- Explore innovative frontiers of knowledge with particular regard to the interdisciplinary approaches and the applicative dimension;
- Allow the international opening for the Regione Campania, thanks to cooperation and exchange activities with realities of national and international research;



- Spread innovation, involving the community and the local economy;
- strengthen the collaboration between the local authorities and the international institutes of research, to provide high standard of training to its own research staff, to the students, to the visitors and to the staff involved
- Generate intellectual properties to promote the data sharing to the scientific community or the technological transfer.

The IR Nano bio-photonic thanks to the technological quality that intends to develop and, by taking advantage of the equipment and latest generation instruments, other than ensuring the research excellence, will be an essential instrument for:

- Giving impulse to the innovation and technology transfer as **patent licensing** and **partnership agreement with companies operating in the bio-medical field**, that in turn will promote:
  - The **development of intellectual properties** in co-ownership with **Campania Region** and to their **protection and transfer** to productive realities able to transform them in long lasting goods;
  - The co-development of products, technologies and methodologies and the creation of new productive processes, such as **start-up** and **spin-off**;
  - The birth and the direct involvement of **companies knowledge-based type** in the process of realization and planning of innovation for the resolution or management of issues in the field of **human health** and in general in the field of intervention where Nanophotonics has its interest.

The provision of a series of **services to international users** and able to guarantee the **self-financing** of the whole structure.