

## **CERICT, IN COLLABORATION WITH UNIVERSITY OF SANNIO, IS OPENING POSITIONS FOR:**

### **PROFILE 1:**

A postdoctoral researcher with expertise in **chemical etching process** (metal or oxide-assisted chemical etching) for the realization of nanostructures and 2D material in different application fields such as photonics and sensing.

The candidate for this position will work as part of an interdisciplinary team in the laboratory of the “CNOS - Center for Nanophotonics and Optoelectronics for Human Health” (<https://www.cerict-cnos.it/en/>) research infrastructure.

### **Major Responsibilities/Duties:**

- Realization of nanostructures and 2D material for applications strictly related to the main research topics of the CNOS infrastructure.

The researcher may also pursue independent research and further academic qualifications.

### **Skills and expertise:**

- Strong background and significant experience in Polymer Chemistry, Nanotechnology, Chemical Engineering, Materials Physics
- Material Characterization, Nanomaterials, Chemical Analysis, Sample Preparation, Nanomaterials Synthesis & Characterization.
- Ability to work both on conventional planar substrates (glass and silicon wafers) and innovative substrates such as the tip of an optical fiber will be positively evaluated.
- A PhD degree in chemistry, nanotechnology or similar disciplines will be positively evaluated.

### **Soft skills:**

- Highly motivated and person capable of working in a multidisciplinary environment, driven by scientific curiosity, and open to learning new challenging topics.
- Ability to work both individually or closely with other team members

### **Place of work**

Benevento, Italy

### **Start of employment**

Employment starting date to be mutually agreed. We look forward to receiving your application by email to [aliberti@unisannio.it](mailto:aliberti@unisannio.it) including your CV.

### **Employment Type**

Full-time

### **Job Functions**

- Experiments
- Research

## **PROFILE 2:**

**Major Responsibilities/Duties:** Development of Micro- and Nanoparticles for Encapsulation and Controlled Release of Nucleic Acids and Bioactive Molecules.

The candidate for this position will work as part of an interdisciplinary team in the laboratory of the “CNOS - Center for Nanophotonics and Optoelectronics for Human Health” (<https://www.cerict-cnos.it/en/>) research infrastructure.

**Skills and expertise** Candidates must hold a degree in Chemistry, Pharmaceutical Chemistry and Technology, Pharmacy, or Biotechnology. The ideal candidate will possess the ability to work both independently and collaboratively within multidisciplinary teams.

A Ph.D. or at least one year of relevant experience in the development of micro- and nanoparticles for encapsulation and controlled release of therapeutic or nutraceutical agents is preferred.

- Expertise in organic phase synthesis.
- Proficiency in spectroscopic techniques, including FTIR, UV-VIS spectrophotometry, and fluorescence.
- Experience with chromatographic techniques such as HPLC.
- Skills in morphological analysis.

### **Soft skills:**

- Highly motivated and person capable of working in a multidisciplinary environment, driven by scientific curiosity, and open to learning new challenging topics.
- Ability to work both individually or closely with other team members

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### **Employment Type**

Full-time

### **Job Functions**

- Experiments
- Research

### **PROFILE 3:**

**Major Responsibilities/Duties:** Extraction, Purification, and Characterization of Natural Organic Substances from Processing Waste.

The candidate for this position will work as part of an interdisciplinary team in the laboratory of the “CNOS - Center for Nanophotonics and Optoelectronics for Human Health” (<https://www.cerict-cnos.it/en/>) research infrastructure.

**Skills and expertise:** Candidates must hold a degree in Chemical Sciences, Chemistry and Pharmaceutical Technology, Pharmacy, Industrial Chemistry, Materials Science, or Chemical Engineering. The ideal candidate will demonstrate the ability to work independently and within multidisciplinary teams. A Ph.D. or at least one year of relevant experience in the extraction, purification, and characterization of natural organic substances is preferred.

- Experience with chromatographic techniques, including HPLC and GC.
- Skills in characterization of organic substances.

#### **Soft skills:**

- Highly motivated and person capable of working in a multidisciplinary environment, driven by scientific curiosity, and open to learning new challenging topics.
- Ability to work both individually or closely with other team members

#### **Place of work**

Benevento, Italy

#### **Start of employment**

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#### **Employment Type**

Full-time

#### **Job Functions**

- Experiments
- Research