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**Job Title** INESC TEC | Doctorate Researcher (AE2025-0343)

**Department** CAP

Institution INESC TEC

PORTO, , Portugal

Date Posted Aug. 1, 2025

**Application Deadline** Sep. 1, 2025 **Position Start Date** Aug. 1, 2025

Job Categories Graduate Student

Academic Field(s) Engineering - Other

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**Job Description** 

Research Opportunities

Physical Engineering

### Work description

The objective of this work is the development of optofluidic solutions fabricated by femtosecond laser direct writing. Integrated optofluidic devices are used for the characterization of cells and other suspended particles and/or for optical trapping.

The fabrication process involves the creation of optical components, such as waveguides and lenses,



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as well as three-dimensional micromachining through erosion in aqueous solutions (FLICE – Femtosecond Laser Induced Chemical Etching).

#### **Academic Qualifications**

• PhD in Physics, Engineering Physics or similar.

### Minimum profile required

- Postdoctoral experience, or a scientific track record following the PhD, compatible with the category of the scientific research career corresponding to the remuneration level defined below.
- Minimum knowledge of optics and programming is essential.

#### Preference factors

• Solid knowledge of guided optics, laser direct writing, and instrumentation will be considered an advantage.

### **Application Period**

Since 01 Aug 2025 to 01 Sep 2025

#### Centre

**Applied Photonics** 

#### Scientific Advisor



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#### Paulo Vicente Marques

#### What we offer

- Multicultural and collaborative environment
- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
- International projects
- The possibility of working in international projects with some of the most important companies in the field.
- Mentoring
- Mentoring with the best researchers in the fields of electrical and industrial engineering, bioengineering, information technology and physics.
- Self Improvement
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- Other Benefits and Perks
- Flexible working time, health insurance, discounts in hotels, transportation, etc.
- Informal Events
- Annual informal events, such as the multicultural party.

For more information: Click Here

#### **Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

#### Contact



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INESC TEC - Instituto De Engenharia De Sistemas E

Computadores, Tecnologia E Ciência

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