

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

<b>Job reference:</b>	AE2022-0390 ( Produtech R3 - CEGI ) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Job/position/grant:</b>	RESEARCHER
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub: Industrial engineering

### Job summary:

<b>INESC TEC is accepting applications for 1 RESEARCHER job in the Cutting and Packing Problems</b>	
<b>Project:</b>	Agenda Mobilizadora da Fileira das Tecnologias de Produção para a Reindustrialização
<b>Scientific Advisor:</b>	António Galvão Ramos
<b>Start Date:</b>	2023-01-16
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b> Cutting and Packing Problems
<b>Project overview:</b> Development of intelligent and advanced algorithms for packing problems in internal logistics operations.
<b>Objectives:</b> The main objective of the work is the development of Intelligent interoperable robotic intralogistics and quality control platform and solutions for industry. The first objective of this project is to develop intelligent and resilient decision support systems for internal logistics operations, which holistically track, trace and automate all stages of the production, from the input of raw materials, through the feeding processes to the production lines and storage of components, to the shipping processes of finished goods.

<b>Academic Qualifications:</b>	Master in Industrial Engineering, Informatics Engineering, Computer Science or related area.
<b>Minimum profile required:</b>	Experience in the following skill(s): <ul style="list-style-type: none"><li>- Programming in C++, Python;</li><li>- analysis and development of optimization models;</li><li>- Ability to work in group, high autonomy, and organization;</li><li>- Experience in 3D packing problems.</li></ul>
<b>Preference factors:</b>	Knowledge in: physics engines; machine learning; version control tools (Git) and optimization; combinatorial optimization.

<b>Funding Entity:</b>	Produtech R3 funded by IAPMEI with reference 60 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026.
<b>Type of contract:</b>	Uncertain term contract The hiring shall be governed by what is stipulated in the legislation in force regarding uncertain term employment contracts and by INESC TEC norms.

<b>Selection criteria:</b>	The selection of the candidates will be based on the following criteria, in descending order of consideration: <ul style="list-style-type: none"><li>a) Relevant Curriculum in the concerned field of this tender</li><li>b) Proven experience.</li></ul>
<b>Selection Jury:</b>	President of the Jury: Prof. António Galvão Ramos; Member: Prof. Elsa Marília Silva; Member: Prof. Pedro Filipe Rocha;
<b>Notification of results:</b>	The results of the selection process will be sent to the interested by electronic mail.
<b>Application period:</b>	From 2022-12-14 to 2022-12-30
<b>Application submission:</b>	Electronic form filling in <a href="http://www.inesctec.pt">www.inesctec.pt</a> in the section <a href="#">Work with Us</a>