

INESC TEC | Post Doctoral Research Grant (AE2025-0012)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=251883>

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Posted Jan. 21, 2025, set to expire May 23, 2025

<b>Job Title</b>	INESC TEC   Post Doctoral Research Grant (AE2025-0012)
<b>Department</b>	CRIIS
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jan. 21, 2025
<b>Application Deadline</b>	Jan. 29, 2025
<b>Position Start Date</b>	Jan. 16, 2025
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5261">https://www.inesctec.pt/en/form/notice/5261</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunities

**Precision Agriculture, bioinformatics, System Biology, Genome Scale Model, metabolic maps plant sensing, physiological diagnostics.**

### Work description

Integrating data from optical sensors and multi-omics in systems biology (SB), where the metabolic pathways of the grapevine can be explored to understand the impact of genetic, environmental, and cultural practices on vine physiology/metabolism for the development of advanced precision agriculture

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models.

The candidate's activities will be developed within the project: OmicBots – High-Throughput Integrative Biology Omics Robots Platform for 'Next Generation Plant Physiology based Precision Viticulture'.  
<https://www.fc.up.pt/omicbots/Home.html>

### Academic Qualifications

- PhD in Agrarian Sciences, Bioengineering, Bioinformatics/Systems Biology, Biotechnological Engineering, and related fields.

### Minimum profile required

- Precision and digital agriculture-SB: genome-scale metabolic models, graph analysis, flux balance analysis.
- AI-driven predictive models-Computers: R(Bioconductor), MATLAB (Comp. Biology), Python (eg. MEWpy, Cobrapy) and Bioinformatics for database searches.
- Experience with multi-omics integration (e.g. HPLC, GC\_MS).
- Precision agriculture.

### Preference factors

- Proven experience in systems biology and bioinformatics.
- The jury may not award the scholarship if the quality of the candidates is inferior to that intended.

**Maintenance stipend:** € 1801,00, according to the table of monthly maintenance stipend for FCT grants, paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

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INESC TEC supports costs with registration, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

The grant holder will benefit from health insurance, supported by INESC TEC.

### Application Period

Since 16 Jan 2025 to 29 Jan 2025

### Centre

Robotics in Industry and Intelligent Systems

### Scientific Advisor

[Mário Cunha](#)

### 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**

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- 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

Portugal

**Contact E-mail**    rh@inesctec.pt