INESC TEC | Research Grant (AE2024-0412)
INESC TEC

Job Title	INESC TEC	Research Grant (AE2024-0412)
Department	CEGI
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Oct. 7, 2024
Application Deadline	Oct. 16, 2024
Position Start Date	Oct. 3, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Apply By Email	
Job Description	

Research Opportunities

Last mile routing

Work description

The project is structured into three sequential tasks:

1. Design delivery districts – Develop a model to divide a geographic area into a set of contiguous districts using historical data.

2. Base district sequencing – Use machine-learning methods to determine base district sequencing

using historical data.

3. Route optimization – Inter district sequencing and intra districting stops sequencing optimization.

Academic Qualifications

Master in Industrial Engineering, Informatics Engineering, Computer Science or related area.

Minimum profile required

Experience in the following skill(s):

1. Programming in Python.
2. Analysis and implementation of optimization models
3. Ability to work in group, high autonomy, and organization.
4. Experience in routing problems.
5. Knowledge of machine learning techniques.
6. Advanced knowledge of English (spoken and written).

Maintenance stipend: € 1259,64, 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.

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.

Preference factors

Programming in c++

Application Period

Since 03 Oct 2024 to 16 Oct 2024

Centre

Industrial Engineering and Management

Scientific Advisor

António Galrão Ramos

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**

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- 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