Applications are open for 6 Research Studentship, within the framework of project 1801P.01224 – BE.Neutral-00000016/IST, contract nº 35 financed by the European and Resilience Plan, under the following conditions:

**Scientific Area:** Environment and Energy

**Admission Requirements:** To be enrolled at a PhD

**Workplan:** The candidates will be integrated in the ‘Industrial Ecology and Sustainability’ Laboratory and will participate in the development and demonstration of a Digital Twin, for simulation of cities and mobility systems, contributing to the advancement of knowledge in integrated sustainability management of cities. This workplan is developed under the framework of the BE.Neutral Agenda, which aims to position the Portuguese cities and industry in the future of mobility through a new generation of products and services oriented towards carbon neutrality, contributing to a transformational effect on the economy, the environment and society. In this context, the research activities to be carried out by the candidates will consist of:

a) Urban building energy modelling, urban mobility simulation, waste management, public policies, or system optimization and AI development; and,

b) impact assessment for integration in Digital Twin.

Qualifications and expertise: the candidates should possess preferably a MSc degree or equivalent in Mechanical, Civil, Environmental Engineering or related domains. Knowledge in system engineering and energy simulation applied to building, mobility or waste management is a plus.

Programming Skills: Experience with the programming software Python is a plus.

Language Skills: Written and verbal communication skills in English are required.


**Workplace:** The work will be developed at IN+ - Center for Innovation, Technology, and Policy Research, Instituto Superior Técnico (Alameda and TagusPark), under the scientific supervision of Professor Paulo Ferrão.

**Duration:** The research fellowship will have the duration of 12 months. It’s expected to begin in May 2023 and may be eventually renewed up to the maximum of 32 months.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal (http://www.fct.pt/apoios/bolsas/valores), the amount of the monthly maintenance allowance is € 1.144,64, being the payment method an option of the Fellow by Wire Transfer.

**Selection methods:** The selection methods will be the following: The selection methods will be the following: curricular evaluation, with eventual interview to the candidates, for the candidates with the best curricular classification. In the curricular evaluation, the following factors will be evaluated: curricular excellence (50%) and relevant experience (50%). After ordering, if necessary, an interview can be carried out to aid in the evaluation of candidates (in this case, the interview has a value of 25% and the curriculum evaluation 75%, respectively).
Composition of the selection Jury: Professor Paulo Ferrão, Professor Carlos Santos Silva, Professor Patrícia Baptista

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by email.

Deadlines and procedures of complaint and appeal. A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST within 30 working days, both counted from the respective notification

Application deadline and formalization: The call is open from March 23 until April 5, 2023.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (http://drh.tecnico.ulisboa.pt/bolseiros/formularios/); ii) *Curriculum Vitae*; iii) academic degree certificate; iv) proof of enrollment at a PhD; v) motivation letter.

Applications must be submitted to the email: jobs@in3.tecnico.ulisboa.pt