

**Research Studentships (PhD students)**

Applications are open for 1 Research Studentship, within the framework of project/R&D institution DAEDALUS-FCT (IST-ID), (2023.17639.ICDT - 15288), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Intelligent Systems, interaction and multimedia and Animal Biology

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

**Workplan:** To build a novel database of head movements in tetrapods through the use of event cameras and the development of advanced computer vision algorithms, in order to systematically record and analyse behavioural patterns and relate them to the macromechanics of the semicircular canals, thereby deepening the integrated understanding of vestibular morphofunction. The objectives to be achieved include the acquisition and processing of high resolution movement data, the development and validation of computational tools for kinematic extraction and analysis, and the integration of these results with theoretical biomechanical models of the vestibular system. The relevance of these objectives to the completion of the studies in which the grant holder is enrolled is direct, insofar as they constitute the methodological and conceptual basis required for the development of his research work, making it possible to generate original results, consolidate advanced technical and analytical skills, and ensure the achievement of the scientific milestones essential to the completion of the academic degree.

**Legislation and Regulations:** Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://dre.pt/application/file/a/127230968>.

**Workplace:** The work will be developed at CERENA and IT of the CERENA do IST-ID e Instituto de Telecomunicações, under the scientific supervision of Professores Doutores Ricardo Araújo e Paulo Lobato Correia.

**Duration:** The research fellowship(s) will have the duration of 30 months. It's expected to begin in July 2026, and may be eventually renewed.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal (<https://www.fct.pt/fct-atualizou-o-valor-das-bolsas-para-2026/>), the amount of the monthly maintenance allowance is €1359,64, being the payment method an option of the Fellow by Wire Transfer monthly.

**Selection methods:** The selection methods to be used will be as follows: curriculum evaluation and individual interview (the individual interview must comply with principles of equality, impartiality and transparency, and shall serve only to provide objective clarification of academic, scientific and motivational elements relevant to the evaluation of the candidate). The selection of candidates will be based on two methods, assessed on a scale from 0 to 20: curriculum evaluation and individual interview. The curriculum evaluation will carry a weighting of 50% and will focus on academic merit, training, and prior experience relevant to the work plan, namely in computer vision, motion analysis, data processing, biomechanics, vertebrate zoology, or related fields. The individual interview will carry a weighting of 50% and is intended to assess the candidate's motivation, understanding of the project's objectives, scientific reasoning ability, aptitude for independent and team-based work, as well as the suitability of the candidate's profile for the proposed tasks. The final classification will be obtained using the formula:  $FC = (CE \times 0.50) + (II \times 0.50)$ , where CE corresponds to the curriculum evaluation and II to the individual interview.

**Composition of the selection Jury:** Prof. Ricardo Araújo, Prof. Paulo Correia, Prof. Leonardo Azevedo

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



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**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-ID within 30 working days, both counted from the respective notification

**Application deadline and formalization:** The call is open from May 14 until June 13, 2026.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/recursos-humanos/bolseiros/#documentos-relacionados> ); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course (PhD); v) motivation letter;

Applications must be submitted to the email: [Ricardo.araujo@tecnico.ulisboa.pt](mailto:Ricardo.araujo@tecnico.ulisboa.pt) and [paulo.lobato.correia@tecnico.ulisboa.pt](mailto:paulo.lobato.correia@tecnico.ulisboa.pt)



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