

The Polytechnic Institute of Leiria (IPLeiria), through its Technology and Management School (ESTG-Leiria), is accepting applications for a scientific research grant, in the following terms:

**Project title:** HapticControl – Development of a new generation of remotes for new forms of media consumption (co-promotion n<sup>er</sup> 17941).

**Project and grant coordinator:** Pedro António Amado de Assunção.

**Grant scientific area:** Electrical and Computer Engineer.

**Grant Type:** Scientific Initiation Grant (BIC).

**Goals:** Study and development for an audio acquisition and communications system between remote controls and interactive multimedia systems.

**Object:** Applied research with hardware and software development and integration for interactive multimedia systems.

**Grant duration:** 6 months, eventually renewable up to the end of the project, with expected start on April 2017.

**Goals to be achieved by the candidate:** Cooperate in the definition of technical specifications and requirements regarding the audio acquisition and communications system. Software development and integration of the communication system. Functional tests and performance trials with prototype validation.

**Recipients:** Degree students in Computer and Electrical Engineering, Computer Science or related fields.

**Desired profile:** Experience in software development for electronic systems, audio signal processing, Google APIs, relevant knowledge in using computer science tools for software development, English fluency, high autonomy and motivated to work in a team.

**Work place:** School of Technology and Management of Leiria (ESTG-Leiria).

**Financing entity:** Co-financed by FEDER – Fundo Europeu de Desenvolvimento Regional, within the Portugal 2020 Program, through COMPETE 2020 – Programa Operacional Competitividade e Internacionalização.

**Grant financial components:** Monthly maintenance allowance, of €385,00, per the Research Grants Regulations from FCT, I. P. ([www.fct.pt/apoios/bolsas/valores](http://www.fct.pt/apoios/bolsas/valores)) and the Scientific Research Grants regulations from IPLeiria.

**Periodicity:** Monthly.

**Payment method:** Check or bank transfer.

**Activity mode:** Exclusive, per the applicable legislation.

**Applications evaluation:** The applications evaluation is based on the curriculum analysis and interview, per the desired profile and the evaluation criteria.

**Evaluation criteria:** a) Academic Habilitation (HA): Quotient between the weighted sum, by ECTS, of the marks obtained in the curricular units with approval until the application date of submission, and the total course ECTS; b) Professional / Academic Experience (EPA): Experience in activities or technical projects with relevance to the project; c) Interview (E); with the final score (NF) =  $[HA \cdot 0,4 + EPA \cdot 0,3 + E \cdot 0,3]$ . If the jury decides through a reasoned decision to do without the interview:  $NF = [HA \cdot 0,4 + PG \cdot 0,3 + EP \cdot 0,3]$ . The evaluation and seriation criteria are part of the minute created by the jury, which can be consulted on request by the interested parties.

**Jury:** The jury in charge of the applications evaluation is constituted by Professors Doctors: Pedro António Amado de Assunção (president), Luís Manuel Conde Bento and Hugo Filipe Costelha de Castro (effective members); Lino Miguel Moreira Ferreira and Carla Alexandra Calado Lopes (substitute members).

**Grant renewal:** Per the 19th article from the Scientific Research Grants regulations from IPLeiria.

**Applications deadline:** 15 of February to 1 of March, 2017.

**Formal application:**

Through the application form, correctly filled and signed, available in [www.ipleiria.pt](http://www.ipleiria.pt), accompanied by the following documentation:

- a) Proof documents that the applicant gathers the required conditions for the type of grant, namely;
  - Documented proof of the academic habilitations required (with final average e each course grade);
  - Documented proof of the professional habilitations (including formations training actions, specializations courses, seminars, among others);
- b) Detailed Curriculum Vitae, dated and signed;
- c) Copy of the citizen's card or id and taxpayer card;
- d) Any document which the candidate considers relevant for the application.

**Submission of applications:** The applications can be delivered personally at ESTG-Leiria; or sent to the School of Technology and Management of Leiria, Campus 2, Morro do Lena – Alto do Vieiro, Apartado 4163, 2411-901 Leiria (in registered mail with reception notification, sent up to the specified deadline); or sent by e-mail to [estg@estg.ipleiria.pt](mailto:estg@estg.ipleiria.pt).

**Disclosure of the results:** Up to 5 working days after the selection ends, through an e-mail with reception receipt or personal notification of the candidates.

**Grant contract model and final reports:** Models approved by the IPLeiria.

**Information and publicity scheme of the grant financing:** Per the 22<sup>nd</sup> article of the Scientific Research Grants regulation of IPLeiria.

**Applicable legislation and regulations:** Statute of the Research Fellow, approved through Law n<sup>er</sup> 40/2004, from August, 18<sup>th</sup>, published in I Serie-A of the DR n<sup>er</sup> 194, with the changes introduced through the Law decree n<sup>er</sup> 202/2012, published in the I Serie of the DR n<sup>er</sup> 165, from August, 27, through Law n<sup>er</sup> 12/2013, published in the I Serie of the DR n<sup>er</sup> 20, from January, 29<sup>th</sup>, and the Law decree n<sup>er</sup> 89/2013, from July, 9<sup>th</sup>, published in the I Serie of the DR n<sup>er</sup> 130; Science and Technology Foundation I. P. Grants Regulation, currently in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>); Scientific Research Grants regulations from IPLeiria, Regulation n<sup>er</sup> 39/2005, published in the II Serie of the DR n<sup>er</sup> 97, from May, 19<sup>th</sup>, with the changes introduced by the Dispatch n<sup>er</sup> 3163/2009, published in the II Serie of the DR n<sup>er</sup> 16, from January, 23<sup>rd</sup>; Dispatch n<sup>er</sup> 238/2011, published in the II Serie of the DR n<sup>er</sup> 3, from January, 5<sup>th</sup>, and Dispatch n<sup>er</sup> 13700/2011, published in the II Serie of the DR n<sup>er</sup> 196, from October, 12<sup>th</sup>.

Leiria, February, 15<sup>th</sup>, 2017.

**IPLeiria President**  
**Nuno André Oliveira Mangas Pereira**

Cofinanciado por: