

Instituto de Telecomunicações, Instituto Superior Técnico, Lisbon, Portugal

Instituto Superior Técnico (IST), at University of Lisbon, is offering a research grant for Masters in the context of the project “MOG – QC on the GO”, Ref. SIIDT/2013/034075, funded by the European Regional Development Fund (ERDF) under Quadro de Referência Estratégico Nacional (QREN), in Portugal.

Admission requirements: Master’s degree in Electrical and Computer Engineering, Computer Science or on a similar engineering field.

Workplan: Project “MOG – QC on the GO” consists on the implementation of an automatic quality assessment system for audiovisual signals, during coding and transcoding processes. The project is supported by four entities: MOG Technologies (project leader), IST, ISCTE-IUL and Instituto Pedro Nunes.

The researcher will join the Multimedia Signal Processing Group at Instituto de Telecomunicações (<http://www.img.lx.it.pt/>) and will be assigned with tasks associated to the quality assessment of video signals.

The work plan assumes that the researcher will participate in the following tasks:

1. State of the art revision and identification of the main artifacts/degradations of the video signal.
2. Conception of components for a modular library for video quality assessment.
3. Implementation of the library components and integration in the “QC on-the-Go” system.
4. Writing of technical papers and participation in scientific meetings.

Place of work: The work will be developed at the Multimedia Signal Processing Group of the Instituto de Telecomunicações (IT), under the supervision of Professor Paula Queluz. IT is located on the IST site, Av. Rovisco Pais 1, Lisbon, Portugal.

Grant duration: 6 months, and can be renewed. The estimated beginning date is November 2013.

Value for monthly allowance: 980 Euros (tax-free) plus Social Insurance.

Selection methods: Selection will be performed by a jury, based on the applicants' CVs and considering the following applicant skills:

- Programming skills with C and/or C++ languages. Experience with Matlab will also be considered.
- Background in the multimedia signal processing field, especially on digital video processing. Knowledge of H.264 and MPEG-2 video coding standards will also be considered.

If necessary, any applicant may also be subject to an interview, in order to complement the evaluation of its CV.

Jury: Professor Paula Queluz (IST / IT), Professor Paulo Correia (IST / IT) and Professor António Rodrigues (IST / IT).

Notification of results: The selected candidate will be notified by email.

Documents to submit: Applicants should send their *Curriculum Vitae* and a proof of their Master degree, to paula.queluz@lx.it.pt till 16 October, 2013 (applications from students having delivered their Master Thesis till this date will be conditionally accepted) . A motivation letter and/or recommendation letter(s) may also be sent. All application files should be in *pdf* format.