

H2Doc – Doctoral program in Environmental Hydraulics and Hydrology

Call for Applications for Individual Doctoral Grants.

The doctoral program H2Doc – Environmental Hydraulics and Hydrology – was selected for funding by the Portuguese Foundation for Science and Technology, IP (FCT, IP), which will support nine (9) in the fourth edition.

The doctoral program is developed in cooperation with the École Polytechnique Fédérale de Lausanne (EPFL) and the Laboratório Nacional de Engenharia Civil (LNEC). **Two (2)** grants are allocated to the cooperation with EPFL. The doctoral program is included in its doctoral program in Civil Engineering at IST.

This call is exclusively directed to the cooperation with EPFL, so that **two (2)** doctoral grants will be allocated.

In the framework of this call, the Selection Committee, composed of professors and senior researchers of the doctoral program, including the Program Director and the Director of the Hydraulic Constructions Laboratory of EPFL, will be responsible for pre-selecting the students proposed to IST and EPFL doctoral schools as PhD students. Selected students accepted by both doctoral schools will be the recipients of the grants funded by FCT, IP. In the sequence of the selection process, the respective grant contracts will be signed directly with FCT, IP.

Thus, in accordance with the Research Grant Holder Statute, published by Law no. 40/2004 of August 18, in its current wording, and the Regulations for Fellowships and Grants of the Foundation for Science and Technology, the Directive Board of the program hereby opens this call for individual grant applications.

DOCTORAL GRANTS (BD): Two (2)

These grants are intended for individuals who meet the requirements set forth in Article 30, paragraph 1, of [Decree Law nº 74/2006, of March 24](#), as amended by Decree-Law No. 107/2008 of June 25, and 230/2009 of September 14. These grants are one year in duration, renewable for up to a total of four years, and cannot be awarded for periods of less than six consecutive months.

CANDIDATES

Potential candidates are talented students with a Master or equivalent degree in engineering, exact sciences and applied sciences – **civil engineering, mechanical engineering, environment engineering and correlated areas** – delivered by international renown schools.

In exceptional cases, the Selection Committee may accept candidates holding a Bachelor degree or equivalent, provided their academic curriculum vitae are exceptional.

The following individuals may apply to this program:

- Portuguese citizens or citizens of other European Union member states;
- citizens of other countries who hold permanent residence permits in Portugal or who hold the status of long-term resident, under the terms of [Law 23/2007 of July 4, amended by Law No. 29/2012 of August 9](#);
- citizens of other countries whom with Portugal holds reciprocity agreements;
- citizens of other countries, through a preliminary personal interview.

The work program is to be totally carried out in Portugal and Switzerland (Lausanne). In no circumstances the stay out of Portugal can exceed two (2) years.

PERIOD OF APPLICATIONS

The call is open between **December 13th, 2016 and January 31st, 2017** at 17:00 GMT.

APPLICATION PROCESS

Applications are submitted through the IST doctoral programs online platform. For detailed information please visit <http://groups.ist.utl.pt/fct-phd/envhidro/>.

The application must include the following components:

- application form (available at <http://groups.ist.utl.pt/fct-phd/envhidro/>);
- copy of ID document / passport and tax card (if applicable);
- indication of the selected dissertation theme(s) from those available at <http://groups.ist.utl.pt/fct-phd/envhidro/>;
- general curriculum vitae. It is mandatory to use the model available at http://www.civil.ist.utl.pt/~ruif/H2Doc/template_cv.docx;
- academic curriculum vitae – certified transcripts showing all academic degrees awarded, with final grade;
- certified transcripts showing the grades received in all courses taken;
- letter of motivation;
- references – the contact details (name, institution and e-mail) of two references should be supplied.

In the motivation letter, the statement of objectives must be aligned with one or more of the advertised research topics.

Important note: candidates must not upload reference letters. Researchers identified as references will be contacted directly for the purpose.

Preference will be given to the candidates with:

- background in fluid mechanics, hydraulics, hydrology, and generally, in courses in the fields of hydraulics and water resources;
- willingness and/or experience in carrying out experimental work in laboratory and/or to work on the development of numerical codes.

Only candidates who have obtained their academic degree by the date of their candidacy can be eligible.

EVALUATION

The evaluation of proposals is carried out in three phases, by assessing the merit of each candidate and producing a ranked list of candidates.

First phase – The Selection Committee will analyze and evaluate the applications, awarding an overall rating calculated using the weighted average of the partial ratings, using a scale from 1 (minimum) to 5 (maximum), of the following criteria (weighting factors shown in brackets):

- academic curriculum vitae (0.6)
- motivation letter (0.2)
- references (0.2)

The rating assigned to the academic curriculum vitae is normalized according to the reference used by FCT for Doctoral Grants, taking into account the several types of degrees (Bachelor, Master, Integrated Master). There may be a bonus of up to 1.5 points (until the maximum of 5.0 points in this criterion) for candidates who:

- have co-authored papers in peer-reviewed journals;
- have presented papers at conferences;
- have an exceptional CV, demonstrating remarkable skills.

The top ranked candidates at this stage will be shortlisted for the second phase.

Second phase - Candidates will be individually interviewed by the Selection Committee (live or via video conferencing) in order to assess their knowledge, specific technical skills, motivation and communication skills in English. Please note that the general curriculum vitae may be discussed during the interview, as means to obtain a more complete profile of the candidate.

Third phase – Selected candidates in phase 2 will be re-evaluated by the Doctoral School of EPFL which will decide on the candidates to be admitted. The Directive Board allocates the PhD research plan and respective supervisors to candidates. The Coordinator of the IST PhD programme in Civil Engineering finally decides on the acceptance of candidates and respective grant allocation.

In this call, a maximum of two (2) candidates will be admitted. The number of selected candidates may be less than the number of grants available, depending on their overall merit.

PUBLICATION OF RESULTS

The results of the selection process will be communicated via email to all candidates, and the list of approved applicants will be available at <http://groups.ist.utl.pt/fct-phd/envhidro/>. In the case of an unfavorable award decision (i.e. for applicants not selected to receive grants), the applicant has a

period of 10 days after disclosure, to be heard by the Selection Committee, by request of a preliminary hearing, pursuant to the Portuguese Código do Procedimento Administrativo. The final decision may be appealed to the Directive Board of the doctoral program, within 15 days after the respective notification.

FINANCING

The grants awarded under this contract will be financed by funds from the State Budget of the [Ministry of Education and Science](#) and, when eligible, by funds from the [European Social Fund](#) through the [Human Potential Operating Program of the Portuguese NSRF 2007-2013](#), in accordance with the provisions of the Specific Regulation of Intervention Typology 4.1.

Any cases not addressed in the present call are covered by the Regulations for Research Grants of the [Foundation for Science and Technology](#), available at <https://www.fct.pt/apoios/bolsas/regulamento2012.phtml.en>

Instituto Superior Técnico, 5th December, 2016