

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), two (2) PhD grants being available in the second part of the 5th edition.

The doctoral program is developed in cooperation with the École Polytechnique Fédérale de Lausanne (EPFL) and the Laboratório Nacional de Engenharia Civil (LNEC). The doctoral program is included, in what concerns IST/ of Universidade de Lisboa (ULisboa), in IST doctoral program in Civil Engineering. This call is exclusively directed to the cooperation with LNEC, so that two (2) doctoral grants will be allocated.

In the framework of this call, the Selection Committee, composed of members of the Extended Directive Board as well as of professors and researcher of the H2Doc doctoral programs is responsible for selecting the students who will be the recipient 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, Decree-Law No 230/2009 of September 14, Decree-Law No. 63/2016, of September 13 and Decree-Law nº 65/2018, of august 16. 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 three 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, mathematics, physics, oceanography, 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 nº 23/2007](#) of July 4th, amended by [Law nº 29/2012](#) of August 9th;
- citizens of other countries whom with Portugal holds reciprocity agreements;
- citizens of other countries, through a preliminary personal interview.

The candidates with academic degrees obtained in non-Portuguese universities are required to present the registration of the recognition of those degrees and the conversion of the obtained final grades in the Portuguese scale (whenever the degree has a final grade attributed), issued by the *Direção-Geral do Ensino Superior* or by a public Portuguese university/faculty (Law nº 341/2007, of 12th of october); alternatively, the candidates can present a document with the recognition or equivalence of their degree to the Portuguese degree, issued by a public Portuguese university/faculty (Decree-Law No. 66/2018, of August 16).

The work program is to be totally carried out in Portugal.

PERIOD OF APPLICATIONS

The call is open between October 21st, 2019 and December 14th, 2019 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, in a specific form, of the dissertation themes (from those available at <http://envhidro.tecnico.ulisboa.pt/proposed-themes/>) sorted by order of interest;
- 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; when applicable, the registration receipt of the MSc degree or equivalent degree in a Portuguese university
- 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 automatically contacted.

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.

EVALUATION

The evaluation of proposals is carried out in two 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 candidates at this stage that fulfil all the admissibility criteria and that have obtained a final score higher or equal to 2.5 will be shortlisted for the second phase of selection.

Second phase – Candidates will be individually interviewed by the Selection Committee (live or via video conferencing) in order to assess their specific skills, motivation and communication skills in English.

In this call, a maximum of two 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 Fundação para a Ciência e a Tecnologia, I.P, within 15 days after the respective notification.

FINANCING

The scholarships 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 Operating Programs of the period 2014-2020 of Portugal 2020, namely the Human Capital Thematic Operating Program and the Northern Region Operating Program, in accordance with the provisions of the applicable Specific Regulation.

Any case not addressed in the present call is covered by the FCT Regulation for Research Studentships and Fellowships, available at <https://www.fct.pt/apoios/bolsas/regulamento.phtml.en>.

Instituto Superior Técnico, 30th September 2019