

**Notice regarding the opening of a tender select a candidate for the contracting of PhD researcher under the scope of “Iron Gall Ink Challenges - History and Conservation of a disappearing Cultural Heritage ”– PTDC/ART-HIS/32327/2017**

1. At a meeting of the Academic and Scientific Committee on October 24, 2018, it was decided to open tenders for the international selection of 1 PhD position to carry out research activities in the scope of the project “Iron Gall Ink Challenges - History and Conservation of a disappearing Cultural Heritage”– PTDC/ART-HIS/32327/2017, supported by national funds inscribed in the budget of the Foundation for Science and Technology (FCT). The work contract will be by an indefinite period of time under the scope of the Portuguese Labour Code with a view to carrying out research activities specified by the Faculty of Social Sciences and Humanities of the *Universidade Nova de Lisboa* (NOVA FCSH). The notice and the selection boards were approved on November 19, 2018 by the Rector of *Universidade Nova de Lisboa*.

2. Description of the position:

IRONIC, a multi and interdisciplinary project, combines a diversity of fields such as history, written culture, archiving and conservation science, restoration, chemistry and nanotechnology. The scope of this project is to develop an innovative nanotechnology-based kit for the treatment at point-of-care of the iron gall ink corrosion process. Being the main ink used in Europe since the 5th century, found on manuscripts, music scores, drawings, letters, maps, and official documents such as wills, bookkeeping records, logs, real estate transactions, etc., its study is crucial to avoid the continuous loss of Cultural Heritage kept in archives, libraries, museums and private collections.

This project will allow to gather and to study the information about archival conservation issues since the 14th century, the creation time of Torre do Tombo, an institution that would originate the actual National Archive of Torre do Tombo (ANTT). Special care will be given to the “Archive of Archive”, the main reference about the institution procedures. Also, for previous periods, the collection "Drawers" and "Registro Geral de Mercês" will be analysed in order to identify appointments criteria of their staff and action protocols within the archive. This documentation will probably act as a proof of a long-term concern for European societies. Associated to State formation processes, by correlating the power theories with the development of archiving and conservation sciences, showing that it was not a fundamental issue for cultural heritage, but a demonstration of the State's interest in preserving 'valuable' reputed information, in the bureaucratic-administrative domain.

IRONIC will identify and characterize the alteration of the inks used in the selected dated manuscripts from ANTT. Assembling those data with the ones that will be obtained from recreated ink historical recipes, standard samples mimicking the historic ones will be reproduced, changing some established parameters, the stroke for instance, and artificially aged. This aging will allow to better understanding the corrosion process in its different phases, and to act against the problem.

The advantages that nanotechnology has brought to other fields last years, will be used in Cultural Heritage. The polyoxometalates (POMs for short) for catalytic and biomedical purposes, could be used as radical

scavengers that, upon encapsulation in polymeric scaffolds, will stop and prevent further long-term corrosion of the ink. Therefore, IRONIC will also develop the *ironic kit*, a new treatment which will be an important and reference tool made available to the worldwide Conservators and keepers to better preserve the documental cultural heritage

The PhD holder to be contracted will be part of the project team participating in the following research, management and dissemination tasks:

1. Assembling historical manuscripts stating conservation issues.
2. Contextualizing conservation practices: politics and agents of the Archive Torre do Tombo.
3. Identification and selection of manuscripts with iron gall ink corrosion.
4. Characterization of the iron gall ink from the manuscripts selected in task 3.
5. Iron gall ink production according to the written sources.
6. Identification and characterization of the corrosion process.
7. Synthesis and encapsulation of POMs.
8. Treatment method development – proof-of-concept.
9. Treatment Kit - development and validation.
10. Publications and dissemination.
11. Organization of an international meeting and exhibition

3. The contracting of the PhD holder is to be carried out under the scope of Degree-Law No. 57/2016, of 29 August, amended by Law 57/2017, of 19 July, which approves a contracting regime of PhD holders designed to stimulate scientific and technical employment in all areas of knowledge (RJEC), and the Portuguese Labour Code, approved by Law No. 7/2009, of 12 February, in its current wording.

4. The PhD holder will be contracted for an indefinite period of time under the scope of the point b) of the number 1 of the article .6º of RJEC, ex vi, number 2 of article 18.º of RJEC, for a predictable period of 31 months that is equivalent to the execution of work related to the specific activities.

5. Under the terms of article 2 of Regulatory Degree No. 11-A/2017, of 29 December, the contracts to be awarded are remunerated according to remuneration level 33 of the TRU (Single Remuneration Table), corresponding to remuneration basis of 2.128,34 euros.

6. The Position of work will be at the premises of NOVA FCSH, Avenida de Berna No. 26 C, 1069-061 Lisbon Portugal, and/or other Positions necessary to carry out the research activities.

7. Tender applicants may be Portuguese, foreign, or stateless candidates who are holders of a PhD degree in Conservation and Restoration, or similar area, with a scientific and/or professional curriculum showing a suitable profile for each of the Position in the tender, namely Theory, History and Technics, Manuscripts studies.

Tenders must be proficient in spoken and written English language.

8. The selection of PhD holder to be contracted will be carried out through assessing the academic and curricular vitae of the candidates for the Position in the tender. In general terms, this evaluation will concern relevance, quality and state of the art: **a)** Of the scientific, cultural and artistic production in the last five years considered most important by the candidate and connected with the Position in the tender; **b)** Of the research activities carried out in the last five years and considered to have had the greatest impact by the candidate, connected with the Position in the tender; **c)** Of the activities regarding the extension and dissemination of knowledge carried out in the last five years, specifically in the context of promoting culture and scientific practices, considered of greatest importance by the candidates, connected with the Position in the tender.

9. The period of five years which is mentioned in the previous paragraph, may be increased by the selection board, at the request of the candidate when based on the suspension of scientific activity for socially protected reasons, particularly reasons involving paternity licence, long-term serious illness, and other legally protected situations of being unavailable for work.

10. The classification system for the candidates is expressed on a scale from 0 to 100 points.

11. The evaluation and ranking criteria for the candidates are the following:

**a)** The scientific, cultural and artistic production considered of greatest importance by the candidates, connected with the positions in the tender, to be evaluated in terms of the intrinsic quality of the respective content (0 — 35 points);

**b)** Research activities considered of greatest importance by the candidates, connected with the positions in the tender, involving coordination and/or participation in research projects assessed by national and international entities; submission of approved or non-approved applications; communications given at scientific meetings; scientific arbitration activities; participation in networks and partnerships; the research project proposal and the respective activity plan (0 — 35 points);

**c)** Extension and/or dissemination activity considered of greatest importance by the candidates, connected with the positions in the tender, including the organization of scientific meetings; the issuing of opinions; studies and reports for public and private entities and civil society stakeholders; spreading of knowledge to extended publics; presentation of research results within the media (0– 30 points).

12. . In accordance with article 13 of RJEC, the selection board is composed as follows:

Chairperson: Doutor David Martin Marcos, Integrated researcher at CHAM e Professor of Universidad Nacional de Educación a Distancia (UNED)

Permanent members:

Doutor António José Estevão Grande Candeias, Associated Professor with association of Universidade de Évora

Doutor João Paulo Oliveira e Costa, Full Professor of NOVA FCSH e Director of CHAM

Substitute member:

Dr. Silvestre Lacerda, General-Director of DG for Book, Archives and Libraries (DGLAB)

13. The application process for the position mentioned above should be carried out using the documentation indicated below, under penalty of exclusion, and this should be submitted in digital form, namely in two *pen-drives*:

a) Application form, available at <http://fcsch.unl.pt/faculdade/recursos-humanos/concursos/nao-docentes>, explicitly mentioning the tender procedure reference and the specific position being applied for;

b) Copy of the PhD certificate and the curriculum vitae of the candidate, organized as instructions according to the systematic numbering of the number 11 of this Public Notice;

c) Three publications considered most important by the candidate, connected with the position.

14. Applications, suitably and completed with the documents mentioned above, should be submitted within a period of 15 business days during working hours to NOVA FCSH counting from the day following the publication of this Public Notice in the Portuguese Official Gazette, *Diário da República*, or sent by mail with a stamped date of dispatch by the last day of the application period, to the following address: Faculdade de Ciências Sociais e Humanas, Avenida de Berna n.º 26 C, 1069-061 Lisbon, Portugal.

15. In the case of the PhD of the selected candidates has been conferred by a foreign higher education institution, the recognition of the referred degree must comply with the provisions of Decree-Law No. 341/2007, from October 12, and, under penalty of exclusion, any formalities established therein must be fulfilled up to the date of signature of the contract.

Lisbon, December 10, 2018

The Director, Prof. Doctor Francisco Caramelo