

Iscte-Instituto Universitário de Lisboa

Public Notice

It is hereby made public that, by virtue of my order issued on 13 March 2019, this international documental tender for recruitment is opened, for the time limit of thirty business days counted from the day immediately after that of the publication of this public notice in *Diário da República*. This recruitment is for a civil service employment contract for an indefinite period for one position in the category of Assistant Professor, in the subject area of Mathematics, at the Department of Mathematics of Iscte-Instituto Universitário de Lisboa. The tender is open pursuant to articles 37 to 51 and 62-A of the University Teaching Career Statute, attached to Decree-Law 205/2009, of 31 August, and amended by Law 8/2010, of 13 May, hereinafter referred to as ECDU, and all other applicable legislation, in particular the Regulation for Recruitment, Selection and Hiring of Teaching Staff of Iscte-Instituto Universitário de Lisboa, published in *Diário da República*, 2nd series, number 193, of 4 October 2010, and is closed with the filling of the job vacancy put out to tender. The trial period is assessed in conformity with the Regulation for Teaching Staff Affiliation of Iscte-Instituto Universitário de Lisboa considering the provisions in its Regulation for Teaching Staff Service and Regulation for Teaching Staff Performance Assessment, in force at the time of recruitment.

I. Recruitment requirements

1. Hold a doctoral degree in Mathematics or other related areas, considered suitable for the tender by the majority of the members of the selection panel. If the doctorate was awarded by a foreign higher education institution, the applicants must provide evidence of its recognition or academic equivalence.
2. Good command of the Portuguese and English languages, spoken and written.

II. Submission of applications

Applications are submitted at <https://recrutamento.iscte-iul.pt/>.

III. Workplace

Iscte-Instituto Universitário de Lisboa
Av. das Forças Armadas
1649-026 Lisboa, Portugal

IV. Instructions for application

The application must be supported by the following documents:

- 1 – Request of admission as an applicant, in conformity with the form of mandatory use, available at <https://www.iscte-iul.pt/conteudos/iscte/quem-somos/trabalhar-no-iscte/1393/concursos>).
- 2 – Documentation confirming the award of a doctoral degree. Holders of a doctoral degree obtained abroad must submit, in addition to document(s) confirming the obtaining of the degree explicitly mentioning the area of knowledge in which it was awarded, proof of its recognition or equivalence by a Portuguese higher education institution, where any formalities stipulated therein should be complied with by the date of conclusion of the contract.
- 3 – It is mandatory for the Curriculum Vitae of the applicant to observe the template available at <https://www.iscte-iul.pt/conteudos/iscte/quem-somos/trabalhar-no-iscte/1393/concursos>, and if otherwise shall lead to exclusion from the tender.
- 4 – List of the applicant's academic contributions in the area for which the tender is opened, identifying the articles indexed in the MathSciNet database, the number of citations of the publications and classification (quartile) in terms of the publication's impact factor, in accordance with Thomson Reuters Web of Knowledge and/or Scopus, for this purpose using the Excel document with the scientific production indicators available at <https://www.iscte-iul.pt/conteudos/iscte/quem-somos/trabalhar-no-iscte/1393/concursos>.
- 5 – Electronic version of the publications referred to in point IV.4 of this public notice.
- 6 – Scientific-pedagogical project, aligned with the applicant's curriculum, developed according to the criteria stipulated in Annex I of this public notice, where the applicants demonstrate how their scientific and pedagogical curriculum fits into and may enrich the activities of the Department of Mathematics of Iscte, more precisely in the area of mathematics applied to technology and computation. The project should also reveal a reflection on the role of mathematics and its applications to technology and computation at Iscte.
- 7 – Any other documents or works that the applicant considers relevant for appraisal by the selection panel.
- 8 – The documents supporting the application should be presented in Portuguese or English. Failure to submit the required documents under the terms of this public notice, their submission beyond the stipulated deadline or the submission of false documents shall result in exclusion from the recruitment process.

V. Assessment criterion of absolute merit

1 – When the applications are duly substantiated in conformity with the requirements in this public notice, the applicant's selection based on absolute merit shall depend on their cumulative meeting of the following requirements:

- a) Possession of an overall curriculum that the selection panel considers to show scientific and pedagogical merit compatible with the subject area of Mathematics;
- b) Submission of at least 4 (four) published articles, or articles definitively accepted for publication, in the last 5 (five) years, indexed in MathSciNet and international scientific journals classified in the 1st or 2nd quartile (Q1 or Q2) in the Scopus or Thomson Reuters Web of Knowledge database, in terms of the publication's impact factor;
- c) Submission of a scientific-pedagogical project, as requested in point IV. 6, that includes the applicant's scientific and pedagogical to the subject area of the tender, does not present serious shortcomings or inaccuracies and demonstrates that the applicant has the necessary capacity to suitably perform the duties of assistant professor in the subject area of Mathematics of the Department of Mathematics of Iscte.

2 – The selection panel shall decide on the applicants' selection based on absolute merit by justified nominal voting in which abstentions are not permitted.

3 – Applicants that receive the favourable vote of more than half the voting members of the selection panel shall be considered approved on the basis of absolute merit.

VI. Selection method and assessment criteria

1 – Applicants approved on the basis of absolute merit shall be subject to the curricular assessment selection method, pursuant to the assessment criteria defined in the following point.

2. Assessment Criteria

The curricular assessment shall take into account the subject area of Mathematics, with particular importance being given to the relevance, quality and up-to-datedness of the applicant's curriculum vitae and emphasis on the curricular items in the fields of encryption, applied categories, automatic learning, optimisation and quantum computing. The parameters to be considered in each of the aspects of the assessment and the weighting assigned to each in the final classification are detailed below.

A) Scientific Activity (60%)

- i. Scientific production in the area for which the tender is opened (45%) – articles in scientific journals indexed in MathSicNet, books and chapters in books. Presentations, as a guest speaker, at international scientific conferences and events; other presentations at conferences or other scientific events. The assessment of this criterion shall consider the quality, relevance, originality, quantity and diversity of the output, the scientific autonomy revealed, the degree of internationalisation and the impact of the scientific production.
- ii. Scientific projects (10%) – participation in scientific projects with national or international funding (public or private). The assessment of this criterion shall consider the quantity, degree of incorporation of the project in national or international networks, the competitive nature of the project in terms of funding, its contribution in terms of assets and resources for the research structures, and the type of involvement of the researcher (coordinator or participant).
- iii. Scientific assessment (5%) – organisation and participation in national or international scientific events. Editing, evaluation and review of national or international scientific publications. The assessment of this parameter shall consider the number, the role performed and diversity of the activities.

B) Pedagogical Activity (20%)

Lecturing activity (20%) — i) Lecturing of curricular units in the subject area of Mathematics: the diversity of the lectured curricular units, the education level ((bachelor, master's and doctorate), involvement in the management of the curricular units (lecturer or coordinator) and the respective pedagogical performance shall be considered; ii) Teaching material and publications of pedagogical nature: the quality and quantity of the material produced by the applicant shall be considered. Iii) Supervision of master's dissertations and doctoral theses: only supervision of completed work, the number and diversity of the supervision activities and the excellence of the supervised work shall be considered.

C) University Outreach Activity (5%)

Publications of scientific dissemination — articles in national journals and conferences and other publications of scientific and technological dissemination, in view of their professional and social impact. Participation and coordination of scientific dissemination initiatives, service to the community involving organisation, cooperation with and consulting provided to other institutions.

D) Scientific Project – Pedagogical (15%)

Quality of the scientific-pedagogical project that the applicant proposes to develop in the subject area opened to tender, aimed at promoting education and research activities in the subject area of Mathematics, with emphasis on applications to technology and computation. The assessment of this parameter shall consider the innovative nature of the project, its feasibility in the context of the department in which the tender is opened and its relevance in the context of Iscte, with the scientific and pedagogical aspects being valued equally.

3. Voting order and method

The decision is taken by absolute majority, i.e., by half plus one of the votes of the members of the selection panel attending the meeting. To this end, each member of the selection panel shall present a written document proposing the order of the applicants, if applicable. This order must be duly substantiated on the assessment criteria indicated in point VI.2, with the member classifying the applicants on a scale of whole numbers from 0 to 100 for each assessment indicator. In the various voting rounds, each member of the selection panel shall respect the ordering that she/he presented, with abstentions not being permitted. The first round of voting aims to determine the applicant positioned in first place. If an applicant receives more than half the votes of the selection panel members attending the meeting, she/he shall be immediately positioned in first place. If this does not occur, the voting shall be repeated after removal of the applicant who

received the least votes in the first round. If there is a tie between two or more applicants in the least voted position, then a vote shall be taken to break this tie, and if the tie still persists, the chairperson of the selection panel shall decide on the applicant to be removed. The process shall be repeated until one applicant obtains absolute majority to be classified in first place. This process is repeated to obtain the applicant classified in second place, and so on successively until an ordered list of all the applicants is obtained. Whenever a tie occurs in the voting on any applicants, the chairperson of the selection panel has the casting vote, pursuant to article 12 of the Regulation for Recruitment, Selection and Hiring of Teaching Staff of Iscte.

VII. Composition of the Selection Panel

The selection panel is chaired, by delegation of the Rector of Iscte-Instituto Universitário de Lisboa, by Dr Jorge Rodrigues da Costa, Full Professor and Vice-Rector of Iscte-Instituto Universitário de Lisboa, and composed of the following professors:

Dr José Manuel Cidade Mourão, Full Professor at the Department of Mathematics, Instituto Superior Técnico da Universidade de Lisboa;

Dr João Jorge Ribeiro Soares Gonçalves de Araújo, Full Professor at the Department of Mathematics of the Faculty of Science and Technology, Universidade Nova de Lisboa;

Dr Ana Luísa da Graça Batista Custódio, Associate Professor at the Department of Mathematics of the Faculty of Science and Technology, Universidade Nova de Lisboa;

Dr João Lopes Costa, Associate Professor at the Department of Mathematics, Iscte-Instituto Universitário de Lisboa;

Dr Cristina Isabel Correia Diogo, Associate Professor at the Department of Mathematics, Iscte-Instituto Universitário de Lisboa;

VIII. Hearing of Interested Parties

The interested parties shall be informed by electronic notification of the lists of selected and excluded applicants as well as the list of final classification and ordering of the applicants. The tender process can be consulted by the applicants at the Human Resources Unit, under the terms indicated in the notification referred to in the previous point.

IX. Equal opportunities

In compliance with subparagraph h) of article 9 of the Constitution, the Public Administration, as an employer entity, promotes a policy of equal opportunities in access to employment and career progression, scrupulously taking measures to prevent all and any form of discrimination.

Iscte, 22 July 2021, The Rector of ISCTE-IUL, Maria de Lurdes Rodrigues

ANNEX I

Scientific-Pedagogical Project

The document should be no more than 4 (four) A4 pages with a minimum font size of 11 (eleven) points, where anything presented beyond the first 4 (four) pages shall not be assessed under any circumstances.

This document should contain a brief but comprehensive presentation of the proposed development of the teaching and research activities in the tender's subject area, illustrating their innovative nature and the plans for their implementation, emphasising their connection to the department and research unit in which this work is intended to be conducted, and the link between the scientific and pedagogical features to be developed. Whenever possible, the applicant's previous results and experience underpinning this project should be presented. The project should also reveal a reflection on the role of mathematics and its applications to technology and computation at ISCTE.