

Announcement for a Research Fellowship, Ref. n.º: ISCAP – 01/2020

A position is being opened for a 12-month Research Fellowship within the scope of the Project no. POCI-01-0145-FEDER-031671 entitled “StoSS - Sectorization to Simplify and Solve” from CEOS.PP - Centre for Organizational and Social Studies of P.Porto, financed by the Programme Portugal2020 within the scope of Scientific, and Technological Development Research Projects (IC&DT) 02/SAICT/2017, namely by ERDF funds via the Operational Programme for Competitiveness and Internationalization COMPETE2020, and by Portuguese national funds via FCT/MCTES, under the following conditions:

1. SCIENTIFIC FIELD

Main Area: Economics.

Subarea: Management Studies.

2. ADMISSION REQUIREMENTS

General requirements

- If the applicant is attending a course that does not award an academic degree:

- a) To have a Bachelor's degree and to be enrolled in a course that does not award an academic degree but that is a part of the higher education course plans, developed in association or cooperation with one or several R&D units at the time of signature of the fellowship contract;
- b) Not to exceed, upon celebrating the aforementioned contract, including possible renovations, an accrued period of two years (be that linear ou interpolated) within this type of fellowship.

- If the applicant is attending a Masters:

- a) To be enrolled in a Masters (Integrated or not) at the time of signature of the fellowship contract.

Specific requirements:

- a) Academic studies in Engineering, Economics, Management, Business Sciences, Informatics, Mathematics, or related area;
- b) Bachelor's Degree with a final average mark of 12 (out of 20) or higher;
- c) High skills in organizational and team work;
- d) Proficiency in English.

Preferential factors:

- a) Candidates who are experienced in the writing of scientific articles are preferred.
- b) Candidates with knowledge in the indicated area are preferred.
- c) Candidates with knowledge of Python or any object-oriented programming language are preferred.

3. WORK PLAN

Collaborate on the work plan of the project "StoSS – Sectorization to Simplify and Solve" of CEOS.PP – Centre for Organizational and Social Studies of P.Porto, namely:

- a) In the development of a decision-making support system to respond to sectorization problems using Python / Django;
- b) In the testing of different heuristics and models for sectorization, including multicriteria approaches;
- c) In the viewing of solutions and in the assessment of the results' quality.

The objective of the project "StoSS – Sectorization to Simplify and Solve" is the broad study of Sectorization Problems (SP) and the development of a decision-making support system that enables the decision making process related to sectorization.

SPs often arise related to geographical issues when dividing a large region into smaller regions following specific conditions. Examples of this are the division of a region into political districts, sales territories or health care and policing areas, municipal solid waste collection or street cleaning, schools' location and maintenance operations.

4. APPLICABLE LEGISLATION AND REGULATIONS

- Research Fellowship Holder Statute, as approved by Law no. 40/2004, of August 18, amended by Decree-Law no. 202/2012, of August 27, by Decree-Law no. 233/2012, of October 29, by Law no. 12/2013, of January 29, by Decree-Law no. 89/2013, of July 9, and by Law no. 123/2019, of August 28;
- Fellowship Regulation of the Polytechnic Institute of Porto, as approved by "Despacho P.PORTO-P-015-2020" from the 18th of May, and by "Despacho 6083/2020", as published in the Portuguese Official Journal, Series II, on the 4th of June.
- FCT Regulation for Studentships and Fellowships, as published in the Portuguese Official Journal, Series II, by Regulation no. 950/2019, of December 16.

5. SCIENTIFIC SUPERVISION AND PLACE OF WORK:

The work will be carried out at CEOS.PP – Centre for Organizational and Social Studies of Porto Accounting and Business School (ISCAP) of the Polytechnic of Porto, under the supervision of ISCAP's Senior Lecturer Isabel Cristina da Silva Lopes.

6. DURATION AND ACTIVITY SCHEME

A 12-month fellowship contract, on an exclusive basis, in accordance with the applicable regulations.

7. VALUE OF MONTHLY MAINTENANCE ALLOWANCE

The amount of the research fellowship is €805,98 (eight hundred and five euros and ninety-eight cents), as per FCT's Stipends values in force, paid monthly, plus a voluntary social insurance reimbursement (a

variable amount depending on the Social Supports Indexing), as per the regulations of the Fellowship Regulation of the Polytechnic Institute of Porto, and is foreseen in the according Request for Expenditure (PAD) n.º ISCAP1590.

8. SELECTION METHOD AND COMPOSITION OF THE JURY

The selection method to be used will be in accordance with the following criteria and respective valuations:

- a) Academic curriculum relevant to the area in the announcement, valued from 0 to 20 (weighting 35%);
- b) Suitability of the candidate's Scientific Field specialization to the activity to be performed, valued from 0 to 20 (weighting 25%);
- c) Professional experience, valued from 0 to 20 (weighting 10%);
- d) Interview, valued from 0 to 20 (weighting 30%).

Candidates may be excluded on the following grounds:

- a) They do not have the mandatory requirements as stated in section 2 of the fellowship announcement;
- b) Their score is below 9.5 in any of the evaluation components and they will, therefore, be excluded from the procedure and will not be evaluated in the following component(s);
- c) They have failed to appear at the interview or have shown unwillingness/unavailability to provide further clarifications that have been requested, which will be deemed equivalent to the candidate's withdrawal.

Composition of the Selection Jury:

- President of the Jury – Professor Isabel Cristina da Silva Lopes, Senior Lecturer at ISCAP;
- Effective Member – Professor Cristina Maria Correia Teles Garcia de Oliveira, Senior Lecturer at ISCAP, set to replace the president in absences and impediments;
- Effective Member – Professor Ana Maria Moreira Rodrigues, Senior Lecturer at ISCAP;
- Alternate Member – Professor Manuel Fernando Moreira da Silva, Senior Lecturer and Vice-dean at ISCAP for Research and internationalization;
- Alternate Member – Member of the Directive Board of CEOS.PP.

9. FORM OF PUBLICATION / NOTIFICATION OF RESULTS

The results of the announcement will be communicated to the candidates electronically, via the platform available at <https://iscap.ipp.pt/concursos-de-pessoal> according to the deadlines foreseen in the Fellowship Regulation of the Polytechnic Institute of Porto.

10. DEADLINE FOR APPLICATION AND APPLICATION FORM

The tender will be open from the 9th of November until the 18th of December of 2020.

The applications must be formalised by filling out an electronic application form, available at <https://iscap.ipp.pt/concursos-de-pessoal> (NEW LINK), and its due submission until the established deadline along with the following documents:

- 1) Curriculum Vitae;
- 2) Qualifications' Certificate, mentioning the final average mark and all the classifications at every course;
- 3) Proof of enrolment in the study cycle awarding (or not awarding) an academic degree, should the applicant not study at P.Porto;
- 4) A sworn written that:
 - a) The applicant was informed of the Fellowship Regulation of the Polytechnic Institute of Porto and shall abide by it;
 - b) The applicant does not exceed, upon celebrating the aforementioned contract, an accrued period of two years (be that linear or interpolated) within this type of fellowship, if attending a course that does not award an academic degree;
- 5) Other documents that the applicant might deem relevant.

Applications submitted by e-mail or any other electronic means other than the one stipulated shall not be considered.

School/Centre: ISCAP – Porto Accounting and Business School / CEOS.PP – Centre for Organizational and Social Studies of the Polytechnic of Porto

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The President of the Polytechnic of Porto, *João Rocha*.