



Public notice Ref.º 793/2018 — Doctor Paulo Jorge dos Santos Gonçalves Ferreira, Full Professor and Rector of the University of Aveiro, hereby announces that for a period of twenty business days, starting on the first business day immediately after the publication of the present notice, an international public notice is opened for recruitment in the form of an uncertain term employment contract, under the Portuguese Labour Code, 28 (twenty-eight) positions at the doctorate level, equivalent to Assistant Researcher for carrying out scientific research activities.

The present public notice was authorised on 8 august 2018, by order of the Rector of the University of Aveiro, following the proposal of the Scientific Council.

The call is ruled by the provisions of Decree-Law 57/2016, from August 29, that sets the rules for doctorate work contracts, aiming to stimulate science and technology employment in all areas of knowledge (RJEC) within the legal provisions of the Labor Code, Law no. 7/2009, from February 12, in its current wording and other applicable legislation and regulations.

The call is open in the frame of n. 1 of article 23 of RJEC for work to be performed by grantees holding a doctorate and that fulfil the admissibility requisites on 31 August 2018.

In the terms of article 5 of the Regulate-Decree n. 11-A/2017, of 29 December, the contracts are paid according to the TRU remuneratory level 33, without prejudice to what is ruled in the n. 3 of the same article.

1 — Admission requirements:

Any national, foreign and stateless candidates holding a Ph.D. degree in the scientific area of the announcement, and having a scientific and professional curriculum suitable to the work to be performed.

2 — Formalisation of the applications:

The applications are addressed to the Rector of the University of Aveiro as follows:

2.1. — The application should include, among other, the following elements:

- a) Call identification;
- b) Applicant's identification: full name, birth date, nationality, mailing address and email;



c) Identification of the institution where the applicant is presently working and his/her position there, when applicable;

d) Identification of degrees held by the applicant;

e) Statement by the applicant declaring that the elements or facts contained in the application are correct and accurate.

2.2. — The application should include the following documents:

a) Copy of a detailed and structured *curriculum vitae* according to the items in point 3;

b) Other relevant documents for the evaluation of qualification in related scientific area;

c) Any other documents the applicant considers relevant, namely for the assessment of the information referred to in n. 2 of article 5 of the RJEC;

2.3. — The *curriculum vitae* should contain:

a) Full identification;

b) Contacts: address, telephone number and email;

c) Copy of the certificate with the respective marks or grade, or other document that is legally recognised for the same purpose;

d) All pertinent information for assessing the application considering the selection and ranking criteria of the present call, organized according to the sub-items of the assessment set forth in Section 3 below.

2.4. — Submission of the application:

2.4.1. — The application may be submitted in Portuguese or in English, by email, to the Human Resources Department of the University of Aveiro (concursosdl57-2016@ua.pt), until the deadline stipulated in this Notice;

2.4.2. — The applicants are required to present a confirmation of “message sent” as proof of the application submission;

2.4.3. — Instructions for the submission of applications, in digital format, are available in the area of Competition and Job Offers of Human Resources area at <http://www.ua.pt/sgrhf/PageText.aspx?id=15031>;



2.5. — Failure to comply with the deadline for submission of the application, as well as the incorrect formalization of the application, result in the exclusion of the application. The exclusion decision is communicated to candidates by email for the purpose of their hearing.

2.6. — If a candidate wishes to apply to more than one position, he/she should present separate applications to each position, otherwise he/she may be excluded.

3 — Evaluation and selection

3.1. — The evaluation of the scientific and curricular course focuses on the relevance, quality and timeliness, considering the following strands:

Strand 1: Criteria to assess the Scientific and/or Artistic performance in the last five years, the candidates consider most relevant: i) Scientific and/or artistic production. Quality and number of the Scientific and/or artistic production in the announced area (books, papers in journals, communications to congresses, conference-recitals, concerts), witnessed by the number and nature of the publications and by their recognition by the scientific and/or artistic community (publication or presentation sites and peer references). ii) Coordination and participation in scientific and/or artistic projects. Quality and number of scientific and/or artistic projects lead or participated in by the candidate, in the area of the announced position, financed on a competitive basis by public funding, national or international agencies, or companies. The quality assessment will take into consideration the funding obtained, the success rate of the applications, the results of any evaluation the project has undergone, and any prototypes developed, particularly if they are followed up by products and services; iii) Participation in the scientific and/or artistic community activities, and building up scientific and/or artistic teams. Assessment will consider the ability to participate in the scientific and/or artistic community activities witnessed, namely, by the organisation of scientific congresses, participation as (co-) editor of journals, participation in projects' and papers' refereeing, presentation of invited talks, participation in academic committees, and prizes and other distinctions received. Assessment will also consider the supervision of M.Sc. and Ph.D. students and mentoring of post-docs.

Strand 2: Criteria to assess outreach and knowledge transfer activities developed in the last five years, namely in the context of promoting the scientific culture, the candidate considers most relevant: i) Patents, copyrights and ownership, formulation of technical standards and legislation. Authorship and co-authorship of patents, artistic works, mathematical methods,



and rules of mental activity. Participation in commissions of normalisation and in the realisation of legislation projects and technical standards. Assessment of this criterion will also consider the economic valorisation of the patents and intellectual property rights; ii) Participation in activities of consulting, testing and measurements with companies and/or the public sector. Participation as instructor in courses of professional training or technological or artistic specialty, aimed at companies or the public sector. Assessment of this criterion will also consider the economic valorisation of the research results accomplished, weighted by the technology transfer contracts that followed up, and by the spin-off companies that they helped creating; iii) Participation in activities of scientific, artistic or technologic dissemination in the scientific community (such as organisation of congresses and conferences) and artistic community (such as concerts or festivals), and for various audiences. Publications of scientific, artistic or technologic dissemination. Oral presentations, recitals and seminars for the general public.

Strand 3: Criteria to assess activities pertaining the management of scientific and technology and innovation programmes, and to assess the track record of the candidate in monitoring the scientific and technologic systems or the high education system in Portugal or abroad. Participation of the candidate in activities pertaining the management of scientific and technology and innovation activities, and in monitoring the scientific and technologic systems or the high education system in Portugal or abroad.

3.2. — The five-year period mentioned above can be extended by the panel, if requested by the candidate, whenever the suspension of scientific activities is reasoned by socially protected grounds like parental leave, long-term serious illness, and other legal situations of unavailability to work.

3.3. — The score obtained in the curricular evaluation is expressed in the numeric scale 0 to 20, considering the valuation up to two decimal places.

3.4. — The jury deliberates by vote justified according to the criteria of evaluation, no abstentions are allowed.

3.5. — The classification of each candidate is obtained by averaging the scores of each of the elements of the jury.

3.6. — Candidates who obtain a rating of less than 15 points are excluded from the public notice.



3.7. — The final ordering project is communicated to candidates, by email, for the purpose of their hearing.

3.8. — At the hearing of the interested parties, the jury appreciates the allegations produced and approves the final ordering list of candidates.

4 — In the frame of the selection tenders, the following positions are opened.

5. – 9 doctorate positions for the development of research activities in the Centre for Environmental and Marine Studies (CESAM), being the description of each vacancy and the evaluation criteria described below.

5.1 – Vacancy 1 - (REF.-151 - 89-ARH/2018)

5.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology and Marine Ecology, with special focus on Polychaeta taxonomy and phylogeny, and management, conservation and register of biological collections.

5.1.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/112408/2015.

5.1.3. - The admission requirements are the doctor degree in Biology, demonstrated experience at postdoctoral level in the study of deep-sea ecosystems; taxonomy writing, illustrating and application of zoological nomenclature rules; Scanning Electron Microscopy; event organization, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=9; Citations (without self-citations)=180, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.1.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;



Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

5.2 – Vacancy 2 - (REF.-152 - 89-ARH/2018)

5.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area Environmental Sciences and Engineering – environmental management and quality, with special focus on the domains of air quality and exposure modelling at regional scale for health impact assessment studies.

5.2.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/100346/2014.

5.2.3. - The admission requirements are the doctor degree in Environmental Sciences and demonstrated experience at postdoctoral in the fields of atmospheric emissions quantification, air quality modelling at regional scale with source apportionment, for air pollution assessment and air quality management studies, including human exposure estimation and health impacts, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=30; Citations (without self-citations)= 680, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.2.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.2.5- In accordance with article 13.º of the RJEC, the jury has the following composition

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro;

Substitute members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro.



5.3 – Vacancy 3 - (REF.-153 - 89-ARH/2018)

5.3.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area Biology, Cell and Molecular Biology, Stress Biology. Demonstrated experience in Cell Biology, Biochemistry and Toxicology with particular emphasis on Neurotoxicology.

5.3.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/110269/2015.

5.3.3. - The admission requirements are the doctor degree in Biology and demonstrated experience at postdoctoral level in the areas of cellular biology and biochemistry; assessment and characterization of neurotoxicity; cytotoxicity assessment in cell lines. Ecotoxicological risk and biomarkers evaluation; characterization of Na/K-ATPase activity and isozyme expression, substantiated by a solid set of publications in this area, with a minimum requirement of Papers= 17; Citations (without self-citations) = 200, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.3.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Stand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.3.5- In accordance with article 13.º of the RJEC, the jury has the following composition

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

5.4 – Vacancy 4 - (REF.-154 - 89-ARH/2018)



5.4.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Agricultural sciences and technologies - Environment and Agriculture with special focus on environmentally sustainable management of soil organic matter resources.

5.4.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/74108/2010.

5.4.3. - The admission requirements are the doctor degree in Soil Science and demonstrated experience at postdoctoral in physical geography with particular emphasis on soil-biochar interactions, in particular soil surface albedo, erosion, and ecotoxicology, and using global quantitative meta-analyses to assess biochar effects on soil-based ecosystem services, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=27; Citations (without self-citations)= 1250, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.4.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Stand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.4.5- In accordance with article 13.º of the RJEC, the jury has the following composition

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro;

Substitute members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro.

5.5 – Vacancy 5 - (REF.-155 - 89-ARH/2018)

5.5.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Marine Sciences - Marine Chemistry with special focus on the domains of on the chemistry of emerging pollutants and (bio)remediation strategies



5.5.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI88/3846/2016.

5.5.3. - The admission requirements are the doctor degree in Environmental Chemistry and demonstrated experience at postdoctoral level on The fields of (analytical) chemistry, microbiology, (bio)remediation and emerging pollutants' characterization, namely, of plastics and microplastics using techniques such as FTIR and/or Raman spectroscopies; experience in Proteomics is also desirable, substantiated by a solid set of publications in this area, with a minimum requirement of Papers= 15; Citations (without self-citations) = 240, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.5.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Stand } 1 * 0.7) + (\text{Strand } 2 * 0.3)$$

5.5.5- In accordance with article 13.º of the RJEC, the jury has the following composition

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro;

Substitute members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro.

5.6 – Vacancy 6 - (REF.-156 - 89-ARH/2018)

5.6.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology, Ecology and biodiversity – Animal Biology and Systematics, with special focus on the domains of Behavioural Ecology of small rodents and insectivores.

5.6.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI88/7274/2015.



5.6.3. - The admission requirements are the doctor degree Zoology, demonstrated experience at postdoctoral level in Field ecology and Experimental Biology of wild insectivores, surface and fossorial rodents: Capture, laboratory maintenance and breeding; Mate choice, prey preference, agonistic behaviour, reproduction biology; Chemical analysis of organic compounds; Energetics, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=9; Citations (without self-citations)=90, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.6.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Stand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.6.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

5.7 – Vacancy 7 - (REF.-157 - 89-ARH/2018)

5.7.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of biology - marine biology and ecology with special focus on Plant Physiology.

5.7.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI88/7404/2016.

5.7.3. - The admission requirements are the doctor degree in Biology and demonstrated experience at postdoctoral level in Ecophysiology and photobiology of algae, corals and photosynthetic marine sea slugs. Photoprotection mechanisms associated to light stress. Photosynthesis and photosynthetic pigment analysis, substantiated by a solid set of



publications in this area, with a minimum requirement of Papers=50; Citations (without self-citations) – 600, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.7.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF=(\text{Strand 1} \times 0.7) + (\text{Strand 2} \times 0.3)$$

5.7.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

5.8. — Vacancy 8 – (REF.-158 - 89-ARH/2018)

5.8.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology - Ecology and Biodiversity - Ecotoxicology with special focus on Assessment of molecular, biochemical, and physiological responses of fish to aquatic contaminants.

5.8.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/85107/2012.

5.8.3. - The admission requirements are the doctor degree in Biology and demonstrated experience at postdoctoral level in the Evaluation of molecular biochemical and physiological responses in soil and aquatic organisms (marine and freshwater); Study of behaviour and effects of nanoparticles in high ionic strength media, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed, with a minimum requirement of Papers=45; Citations (without self-citations)=200



5.8.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$RF = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.8.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

5.9. — Lugar 9 – (REF.-159 - 89-ARH/2018)

5.9.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology - Ecology and Biodiversity, with special emphasis on Marine Ecotoxicology - bioaccumulation and toxicity of emerging contaminants under climate change scenarios.

5.9.2. – This vacancy is opened under the terms of the n. 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/92258/2013.

5.9.3. - The admission requirements are the doctor degree in Biology and demonstrated experience at postdoctoral level Evaluation of bioacumulation and toxicity of classical and emerging pollutants (pharmaceuticals and carbon nanoparticles), under climate change scenarios, through the use of larval development, transcriptomic, biochemical and physiological biomarkers, in marine polychaetes and bivalves, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=115; Citations (without self-citations) – 1400, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

5.9.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:



$$RF = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.3)$$

5.9.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Ana Isabel Lillebø Batista, Principal Researcher of University of Aveiro;

Effective members: Professor Dr. Amadeu Mortágua Velho da Maia Soares, Full Professor and Dr. Jesus Manuel Pedreira Dubert, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Valdemar Inocêncio Esteves and Dr. Myriam Alexandra dos Santos Batalha Dias Nunes Lopes, both Assistant Professors of University of Aveiro.

6. - 9 doctorate vacancies for the development of research activities in the Aveiro Institute of Materials (CICECO), being the description of each vacancy and the evaluation criteria described below.

6.1 – Vacancy 1 - (REF.-160 - 89-ARH/2018)

6.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Materials Science and Engineering, with special focus on the domains of Applied Crystallography, Surface Engineering and Corrosion Protection.

6.1.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BCC/UI50/2877/2016.

6.1.3. - The admission requirements are the doctoral degree in Solid State Physics, demonstrated experience at postdoctoral level in characterization of crystal structures, phase transitions and transformations, in functional materials for corrosion protection, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Stand 1} * 0.6) + (\text{Strand 2} * 0.1) + (\text{Strand 3} * 0.3)$$

6.1.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:



President: Professor Dr. João Carlos Matias Celestino Gomes da Rocha, Full Professor of University of Aveiro;

Effective members: Dr. João André da Costa Tedim, Assistant Professor and Professor Dr. Joaquim Manuel Vieira Full Professor, both of University of Aveiro;

Substitute members: Dr. Augusto Luís Barros Lopes Assistant Professor and Professor Dr. Mário Guerreiro Silva Ferreira Invited Full Professor, both of University of Aveiro.

6.2 – Vacancy 2 - (REF.- 161 - 89-ARH/2018)

6.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Materials Science and Engineering, with special focus on the domains of ecoceramics, activated carbon synthesis, industrial waste valorisation, and eco-cements and geopolymers.

6.2.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI50/6258/2016.

6.2.3. - The admission requirements are the doctoral degree in Polymer and Composites Science and Engineering, demonstrated experience at postdoctoral level in the synthesis of ecoceramics, activated carbon, wastes valorisation and production of eco-cements and geopolymers, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.2.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 3} * 0.1)$$

6.2.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. João Carlos Matias Celestino Gomes da Rocha, Full Professor of University of Aveiro;



Effective members: Dr. Robert Carlyle Pullar, Equated Principal Researcher and Dr. João António Labrincha Baptista, Associate Professor with "Agregação", both of University of Aveiro;

Substitute members: Dr. Ana Maria de Oliveira e Rocha Senos, Associate Professor and Dr. Pedro Manuel Lima de Quintanilha Mantas, Assistant Professor", both of University of Aveiro.

6.3 – Vacancy 3 - (REF.- 162 - 89-ARH/2018)

6.3.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Civil Engineering, with special focus on the domains of Construction Materials (namely in the area of concrete and mortar rheology and in the waste valorisation in these materials).

6.3.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI89/3127/2014.

6.3.3. - The admission requirements are the doctoral degree in Civil Engineering, demonstrated experience at postdoctoral level in concrete and mortar rheology and in the waste valorisation in these materials, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.3.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.1)$$

6.3.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. João Carlos Matias Celestino Gomes da Rocha, Full Professor of University of Aveiro;

Effective members: Professor Dr. Victor Miguel Carneiro de Sousa Ferreira, Full Professor and Dr. Miguel Nuno Lobato de Sousa Monteiro de Morais, Assistant Professor, both of University of Aveiro;



Substitute members: Dr. João António Labrincha Baptista, Associate Professor with “Agregação” and Dr. Pedro Manuel Lima Quintanilha Mantas, Assistant Professor, both of University of Aveiro.

6.4 – Vacancy 4 - (REF.-163 - 89-ARH/2018)

6.4.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry, with special focus on the classical molecular dynamics simulation of the structure and stability of layered double hydroxides (LDH) materials, with intercalated corrosion inhibitors/accelerators, immersed in corrosive solutions, at different pH, temperature and pressure conditions and on the diffusion and release of corrosion inhibitors from LDH nanocontainers

6.4.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI89/7145/2016.

6.4.3. - The admission requirements are a doctoral degree in Chemistry or Physics demonstrated experience at postdoctoral level on the development of models for classical molecular dynamics simulations aiming the atomic level understanding of the incorporation of organic and inorganic anions by Mg/Al or Zn/Al LDH materials, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.4.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.1)$$

6.4.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor of the University of Aveiro.

Effective members: Professor Dr. João Manuel da Costa and Araújo Pereira Coutinho, Full Professor and Dr. Paulo Jorge de Almeida Ribeiro Claro, Associate Professor with “Agregação”, both of University of Aveiro;



Substitute members: Dr. Sérgio Miguel Fernandes dos Santos, Equated Assistant Researcher and Dr. Paula Celeste da Silva Ferreira, Equated Coordinator Researcher both from University of Aveiro.

6.5 – Vacancy 5 - (REF.-164 - 89-ARH/2018)

6.5.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemical Engineering, with special focus on the by candidates with demonstrated experience in extracting biomolecules using alternative liquid-liquid extraction systems namely aqueous biphasic systems and their thermophysical and chemical characterization, namely by solvatochromism

6.5.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/111113/2015.

6.5.3. - The admission requirements are a doctoral degree in Chemical Engineering, demonstrated experience at postdoctoral level on the extraction of biomolecules using alternative liquid-liquid extraction systems such as two-phase aqueous systems and their thermophysical and chemical characterization, namely by solvatochromismo, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.5.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

6.5.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor of the University of Aveiro.

Effective members: Professor Dr. João Manuel da Costa and Araújo Pereira Coutinho, Full Professor and Dr. Mara Guadalupe Freire Martins, Coordinator Researcher, both of University of Aveiro;



Substitute members: Dr. Sónia Patricia Marques Ventura, Equated Assistant Researcher and Professor Dr. Armando Jorge Domingues Silvestre, Full Professor, both of University of Aveiro.

6.6 – Vacancy 6 - (REF.-165 - 89-ARH/2018)

6.6.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry, with special focus in the Science and Technology management of the Solid-state Nuclear Magnetic Resonance Spectrometers of University of Aveiro

6.6.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BGCT/UI89/3421/2013.

6.6.3. - The admission requirements are a doctoral degree in Chemistry, demonstrated experience at postdoctoral level on Science and Technology management, namely in the area of maintenance and operation of the solid-state Nuclear Magnetic Resonance spectrometers, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.6.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR=(\text{Strand 1} * 0.3) + (\text{Strand 2} * 0.1) + (\text{Strand 3} * 0.6)$$

6.6.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. João Carlos Matias Celestino Gomes da Rocha, Full Professor of the University of Aveiro;

Effective members: Professor Dr. Artur Manuel Soares da Silva, Full Professor and Dr. Luís Miguel Monteiro Mafra, Principal Researcher, both of University of Aveiro.

Substitute members: Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor and Dr. Paulo Jorge de Almeida Ribeiro Claro, Associate Professor with “Agregação”, both of University of Aveiro.



6.7 – Vacancy 7 - (REF.-166 - 89-ARH/2018)

6.7.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry, with special focus on single-crystal X-ray diffraction.

6.7.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BGCT/UI89/1577/2016.

6.7.3. - The admission requirements are a doctoral degree in Chemistry, demonstrated experience at postdoctoral level on Science and Technology management, namely in the area of maintenance and operation of single-crystal X-ray diffractometers, as well as expertise in crystallography , including structure solving, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.7.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR=(\text{Strand 1} * 0.6) + (\text{Strand 3} * 0.4)$$

6.7.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr.João Carlos Matias Celestino Gomes da Rocha, Full Professor of the University of Aveiro.

Effective members: Vítor Manuel Sousa Félix, Associate Professor with “Agregação” and Dr Luís Miguel Monteiro Mafra, Principal Researcher, both of University of Aveiro.

Substitute members: Dr.Filipe Alexandre Almeida Paz, Principal Researcher and Dr. Paulo Jorge de Almeida Ribeiro Claro, Associate Professor with “Agregação”, both of University of Aveiro.

6.8 – Vacancy 8 - (REF.-167 - 89-ARH/2018)

6.8.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Materials Science and Engineering, with special focus on the maintenance and operation of localized electrochemistry techniques (scanning vibrating electrode techniques, potentiometric and amperometric microelectrodes).



6.8.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BGCT/UI89/2739/2015.

6.8.3. - The admission requirements are a doctoral degree in Chemical Engineering, demonstrated experience at a post-doctoral level on localized electrochemistry techniques applied to corrosion and protection, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.8.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.8) + (\text{Strand 2} * 0.1) + (\text{Strand 3} * 0.1)$$

6.8.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor of the University of Aveiro;

Effective members: Professor Dr. Mário Guerreiro Silva Ferreira, Invited Full Professor and Dr. Rui Ramos Ferreira e Silva, Associate Professor, both of University of Aveiro;

Substitute members: Dr. João André da Costa Tedim, Assistant Professor and Dr. Filipe José Alves de Oliveira, Equated Principal Researcher, both of University of Aveiro.

6.9. — Vacancy 9 – (REF.-168 - 89-ARH/2018)

6.9.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry, with special focus on the domains of organic compounds synthesis.

6.9.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BI/UI89/5508/2016.

6.9.3. - The admission requirements are the doctor degree in Chemistry, demonstrated experience at postdoctoral level in the synthesis and study of the properties of metal-organic frameworks (MOFs) and/or post-synthesis modifications, substantiated by a solid set of



publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

6.9.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.1)$$

6.9.5. - In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. João Carlos Matias Celestino Gomes da Rocha, Full Professor of University of Aveiro;

Effective members: Dr. Filipe Alexandre Almeida Paz, Principal Researcher and Dr. Mário Manuel Quialheiro Simões, Assistant Professor, both of University of Aveiro;

Substitute members: Dr. Maria do Amparo Ferreira Faustino and Dr. Helena Isabel Seguro Nogueira, both Assistant Professors of University of Aveiro.

7. - 1 doctorate vacancy for the development of research activities in the Institute of Biomedicine of Aveiro (IBIMED), being the description of each vacancy and the evaluation criteria described below.

7.1 – Vacancy 1 - (REF.-169 - 89-ARH/2018)

7.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biomedical Sciences, with special focus on the domains of Molecular Biomedicine and Molecular and Cellular Biology.

7.1.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI98/3304/2016.

7.1.3. - The admission requirements are the doctoral degree in Biology, demonstrated experience at postdoctoral level in molecular and cellular biology, namely in the study of organelle dynamics (peroxisomes and mitochondria), genetic manipulation of *Ustilago maydis*



and microscopy; FELASA Category C accreditation in animal experimentation and DGAV license; experience in laboratory and animal house coordination and management, as well as in ORBEA activities, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

7.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.1)$$

7.1.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Manuel António da Silva Santos, Associate Professor of University of Aveiro;

Effective members: Dr. Gabriela Maria Ferreira Ribeiro de Moura, Assistant Professor and Dr. Margarida Sâncio da Cruz Fardilha, Assistant Professor with “Agregação”, both of University of Aveiro;

Substitute members: Dr. Catarina Rodrigues de Almeida and Dr. Luísa Alejandra Helguero, both Assistant Professors, of University of Aveiro.

8. - 3 doctorate vacancies for the development of research activities in the I3N - FSCOSD - Institute for Nanostructures, Nanomodelling and Nanofabrication, being the description of each vacancy and the evaluation criteria described below.

8.1 – Vacancy 1 - (REF.-170 - 89-ARH/2018)

8.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Physics, with special focus on the domains of X-ray fluorescence imaging systems.

8.1.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/109744/2015.



8.1.3. - The admission requirements are the doctoral degree in Physics or Engineering Physics, demonstrated experience at postdoctoral level in development of energy-resolved X-ray detectors for X-ray fluorescence imaging, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

8.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.1)$$

8.1.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Armando José Trindade das Neves, Associate Professor of University of Aveiro;

Effective members: Dr. João Filipe Calapez de Albuquerque Veloso, Assistant Professor with “Agregação” and Professor Doctor João de Lemos Pinto, Full Professor, both of the University of Aveiro;

Substitute members: Professor Doctor Manuel Almeida Valente, Associate Professor, and Dr. Ricardo Assis Guimarães Dias, Assistant Professor, both of University of Aveiro.

8.2 – Vacancy 2 - (REF.-171 - 89-ARH/2018)

8.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Physics, with special focus on the domains of statistical physics of complex networks and random graphs.

8.2.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/105269/2014

8.2.3. - The admission requirements are the doctoral degree in Physics, demonstrated experience at postdoctoral level in (i) research into static and dynamic evolution of complex networks; (ii) theory of phase transitions, continuous and discontinuous, in cooperative systems in complex networks; (iii) analysis of the structural organization of complex networks with directed links and applications in biological systems; (iv) complex network models applied to proteins or RNA's., substantiated by a solid set of publications in this area and a scientific



and professional curriculum that represents the appropriate profile to implement the activities to be developed.

8.2.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

8.2.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Armando José Trindade das Neves, Associate Professor of the University of Aveiro.

Effective members: Professor Dr. José Fernando Ferreira Mendes, Full Professor and Dr. Ricardo Assis Guimarães Dias, Assistant Professor, both of University of Aveiro;

Substitute members: Dr. Sergey Dorogovtsev, Equated Coordinator Researcher and Dr. Alexander Goltsev, Equated Assistant Researcher, both of the University of Aveiro.

8.3 – Vacancy 3 - (REF.-172 - 89-ARH/2018)

8.3.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Physics, with special focus on the domains of rare earth doped nano-particles with enhanced up/down conversion luminescence.

8.3.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference BPD/UI96/6859/2016

8.3.3. - The admission requirements are the doctoral degree in Physics, demonstrated experience at postdoctoral level in the growth by sol-gel techniques of nanoparticles doped with rare earth ions, and their structural and optical characterization, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

8.3.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:



$$FR = (\text{Strand 1} * 0.95) + (\text{Strand 2} * 0.05)$$

8.3.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Armando José Trindade das Neves, Associated Professor of University of Aveiro.

Effective members: Dr. Manuel Almeida Valente, Associate Professor and Dr. Manuel Pedro Fernandes Graça, Equated Principal Researcher, both of University of Aveiro;

Substitute members: Dr. Manuel Jorge de Araújo Pereira Soares and Dr. Luis Miguel Rino Cerveira da Silva, both Assistant Professors of University of Aveiro.

9. - 3 doctorate vacancies for the development of research activities in the Organic Chemistry, Natural and Agro-foods Products (QOPNA), being the description of each vacancy and the evaluation criteria described below.

9.1. – Vacancy 1 - (REF.-173 - 89-ARH/2018)

9.1.1. This position is to develop a plan of activities of investigation and dissemination of knowledge in the area of Chemistry, with special emphasis on organic synthesis and study of photophysical properties.

9.1.2. The position is opened in the terms of nº1 of article 23º of RJEC, considering the fellowship with reference SFRH/BPD/70702/2010.

9.1.3. Admission requisitions for this position include a doctorate degree in Chemistry, experience at the post-doctoral level in organic synthesis, with special emphasis in the synthesis of fluorescent compounds, and in the characterization of optoelectronic properties of organic compounds, demonstrated by a solid set of publications in this field, and a scientific and professional *curriculum* whose profile is suited for the activity to be performed.

9.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.85) + (\text{Strand 2} * 0.15)$$

9.1.5- In accordance with article 13.º of the RJEC, the jury has the following composition:



President: Dr. Francisco Manuel Lemos Amado, Associate Professor with “Agregação” of University of Aveiro;

Effective members: Professor Dr. Artur Manuel Soares da Silva, Full Professor and Dr. Diana Cláudia Gouveia Alves Pinto, Assistant Professor, both of University of Aveiro;

Substitute members: Dr. Mário Manuel Quialheiro Simões, Assistant Professor and Dr. Augusto Costa Tomé, Associate Professor with “agregação”, of University of Aveiro.

9.2. – Vacancy 2 - (REF.-174 - 89-ARH/2018)

9.2.1. This doctorate position is opened for the exercise of activities of research and dissemination of knowledge in the scientific area of Chemistry, with special emphasis in the field of ohmic heating-assisted chemical synthesis.

9.2.2. The place is opened within the scope of Article 23 (1) of the RJEC, in particular by taking account of the SFRH/BPD/108807/2015 grant.

9.2.3. The admission requirements for this contest are: PhD degree in Chemistry having demonstrated experience at postdoctoral level in the development of new and more sustainable organic synthesis methodologies, using ohmic heating; synthesis and structural characterization of heterocyclic compounds mainly by nuclear magnetic resonance (NMR) techniques, and the development and set-up of ohmic heating reactors for chemical synthesis, embodied by a solid set of publications in this area and holder of a scientific and professional curriculum that shows a suitable profile for the activity to be developed.

9.2.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.85) + (\text{Strand 2} * 0.15)$$

9.2.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Francisco Manuel Lemos Amado, Associate Professor with “Agregação” of University of Aveiro;

Effective members: Professor Dr. Artur Manuel Soares da Silva, Full Professor and Dr. Diana Cláudia Gouveia Alves Pinto, Assistant Professor, both of University of Aveiro;



Substitute members: Dr. Mário Manuel Quialheiro Simões, Assistant Professor and Dr. Augusto Costa Tomé, Associate Professor with “agregação”, of Univesrity of Aveiro.

9.3. – Vacancy 3 - (REF.-175 - 89-ARH/2018)

9.3.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry, with special focus in valorization of sub-products from the agro-food industry, by extraction using emergent technologies, of bioactive compounds and its characterization and evaluation of its bioactive properties, to develop functional products.

9.3.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/95795/2013.

9.3.3. - The admission requirements are the doctoral degree in Biotechnology, demonstrated experience at postdoctoral level in valorization of sub-products from the agro-food industry, namely in high pressure extraction of compounds with bioactive properties, its chemical characterization and evaluation of its bioactive properties, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

9.3.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR=(\text{Strand 1} * *0.85) + (\text{Strand 2}*0.15)$$

9.3.5. – In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Dr. Francisco Manuel Lemos Amado, Associate Professor with “Agregação” of Univesity of Aveiro;

Effective members: Dr. Jorge Manuel Alexandre Saraiva, Assistant Researcher and Dr. Manuel António Coimbra Rodrigues da Silva, Associate Professor with “Agregação”, both of Univesrity of Aveiro;

Substitute members: Dr. José António Teixeira Lopes da Silva, Assistant Professor and Dr. Augusto Costa Tomé, Associate Professor with “agregação”, of Univesrity of Aveiro.



10. - 2 doctorate vacancies for the development of research activities in the Centre of Research and Development in Mathematics and Applications (CIDMA), being the description of each vacancy and the evaluation criteria described below.

10.1 – Vacancy 1 - (REF.-176 - 89-ARH/2018)

10.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Mathematics, with special focus on the theoretical domains of efficiency analysis and differential equations with concrete applications to benchmarking of public and private institutions.

10.1.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/97085/2013.

10.1.3. - The admission requirements are the doctoral degree in Mathematics in the topics of differential equations, demonstrated experience at postdoctoral level in econometrics with applications of efficiency analysis tools, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR=(\text{Strand 1} \cdot 0.85) + (\text{Strand 2} \cdot 0.1) + (\text{Strand 3} \cdot 0.05)$$

10.1.5. – In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. António Manuel Rosa Pereira Caetano, Full Professor of University of Aveiro;

Effective members: Professor Dr. Vasile Staicu, Full Professor and Dr. Eugénio Alexandre Miguel Rocha, Assistant Professor, both of University of Aveiro;



Substitute members: Dr. Gonçalo Alves de Sousa Santinha and Dr. José Alexandre da Rocha Almeida, both Assistant Professors of University of Aveiro.

10.2 – Vacancy 2 - (REF.-177 - 89-ARH/2018)

10.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Mathematics, sub-area Computation and Logic, with special focus on the domains of Modal and Dynamic Logic, and on the formal specification of reactive systems.

10.2.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJE, taking into account the fellowship with the reference SFRH/BPD/103004/2014.

10.2.3. - The admission requirements are the doctoral degree in Computer Science, demonstrated experience at postdoctoral level in the study, development, combination and parametric construction of logics dedicated to the formal specification and verification of complex software systems, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.2.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.9) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

10.2.5. – In accordance with article 13.º of the RJE, the jury has the following composition:

President: Professor Dr. António Manuel Rosa Pereira Caetano, Full Professor of University of Aveiro;

Effective members: Dr. Luís Manuel Coelho Dias Soares Barbosa, Associate Professor with “Agregação” of University of Minho and Dr. Manuel António Gonçalves Martins, Associate Professor of University of Aveiro;

Substitute members: Dr. Maria Elisa Carrancho Fernandes and Dr. João Pedro Antunes Ferreira da Cruz, both Assistant Professors of University of Aveiro.



11. - 1 doctorate vacancies for the development of research activities in the Research Centre GeoBioSciences, GeoTechnologies and GeoEngineering (GEOBIOTEC) being the description of each vacancy and the evaluation criteria described below.

11.1 – Vacancy 1 - (REF.-178 - 89-ARH/2018)

11.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Construction Materials, with special focus on the domains of conservation and restoration of antique coatings.

11.1.2. – This vacancy is opened under the terms of the n.º 1 of the article 23.º of the RJEC, taking into account the fellowship with the reference SFRH/BPD/101517/2014.

11.1.3. - The admission requirements are the doctor degree in Civil Engineering, demonstrated experience at postdoctoral level in “Preservation and durability of old mortars; in situ and laboratory characterization of mortars; development of compatible materials for replacement of old coatings”, substantiated by a solid set of publications in this area and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

11.1.4. – The candidates will be assessed and ranked according to the obtained results in the criteria identified in point 3.1. of this public notice, being the final result (FR) expressed in a 0 to 20 scale, taking into account the following formula:

$$FR = (\text{Strand 1} * 0.8) + (\text{Strand 2} * 0.2)$$

11.1.5- In accordance with article 13.º of the RJEC, the jury has the following composition:

President: Professor Dr. Fernando Joaquim Fernandes Tavares Rocha, Full Professor of University of Aveiro;

Effective members: Dr. Ana Luísa Pinheiro Lomelino Velosa and Dr. Paulo Barreto Cachim, both Associate Professors with “Agregação” of University of Aveiro;

Substitute members: Dr. Fernando Ernesto Rocha de Almeida, Associate Professor and Professor Dr. Eduardo Anselmo Ferreira da Silva, Full Professor of University of Aveiro.



12 — Publication of Competition Notice

In addition to being published in Series 2 of the *Diário da República* the present notice is also published in:

- a) The website of the Foundation for Science and Technology, I.P.(FCT), in Portuguese and English;
- c) The website of the University of Aveiro, in Portuguese and English;
- d) In a national newspaper.

13 — This Public notice is solely for the positions described and may be terminated until the homologation of the final ranking list of candidates. The process will cease after the list of the candidates is ratified and the positions are filled.

14 — Once these vacancies were opened under the no. 1, of Article 23º, of the RJE, in the event that the scholarship holder who originated the vacancy do not apply, the opening of this vacancy will not produce any effect.

15 — The recruitment of the successful applicants for each of the vacancies of this public notice will be subject to the suspensive condition of the budgetary availability through their funding from FCT regarding the costs associated with the employment contracts through the conclusion of a contract-programme between the FCT and University of Aveiro.

16 — In case the successful applicants awarded the doctoral degree by a foreign higher education institution the conclusion of the employment contract will be subject to fulfillment of the requirements and formalities provided for in Decree-Law n.º 341/2007, of October 12

17 — In compliance with subparagraph h) of article 9 of the Constitution of the Portuguese Republic, the Administration, as the employing entity, actively promotes a policy of equal opportunities between men and women in access to employment and professional advancement, scrupulously taking measures to avoid any form of discrimination.

august 8. 2018 — The Rector, *Professor Dr. Paulo Jorge dos Santos Gonçalves Ferreira*.