



Public notice Ref.º 794/2018 — 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, 25 (twenty five) 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. — 1 doctorate position for the development of research activities in the GeoBioSciences, GeoTechnologies and GeoEngineering (GEOBIOTEC), being the description of each vacancy and the evaluation criteria described below.

5.1 – Vacancy 1 - (REF.-179 - 97-ARH/2018)

5.1 – Vacancy 1

5.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Geochemistry, with special focus on the domains of Environmental Geochemistry, Biogeochemistry, Hidrogeochemistry and Isotopic Geochemistry.

5.1.2. – 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/99448/2014.

5.1.3. - The admission requirements are the doctor degree in Geosciences (Environmental Geochemistry), demonstrated experience at postdoctoral level in Extreme Acid Environment: biogeochemical approach to assess, remediate and preserve, 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.

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:

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

5.1.5- 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: Professor Dr. Eduardo Anselmo Ferreira da Silva, Full Professor and Dr. Salomé Fernandes Pinheiro de Almeida, Assistant Professor, both of University of Aveiro;



Substitute members: Dr. Maria do Rosário Mascarenhas de Almeida Azevedo, Associate Professor and Dr. José Francisco Horta Pacheco dos Santos, Assistant Professor, both of University of Aveiro.

6. - 2 doctorate vacancies for the development of research activities in the Centre for Mechanical Technology and Automation (TEMA), being the description of each vacancy and the evaluation criteria described below.

6.1 – Vacancy 1 - (REF.-180 - 97-ARH/2018)

6.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Mechanical Engineering with special focus on the domains of the development, simulation and characterization of innovative systems of storage and heat exchange made of polymeric materials.

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 BGCT/REITORIA/3627/2014.

6.1.3. - The admission requirements are the doctor degree in Mechanical Engineering, demonstrated experience at doctoral level in numerical simulation, processing and characterization of polymeric materials at both macro and micro scale, 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:

$$FR = (\text{Strand 1} * 0.8) + (\text{Strand 3} * 0.2)$$

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

President: Dr. António Manuel de Bastos Pereira, Assistant Professor of University of Aveiro;

Effective members: Dr. Mónica Sandra Abrantes de Oliveira Correia and Dr. Nelson Amadeu Dias Martins, both Assistant Professors of University of Aveiro;



Substitute members: Dr. Paula Alexandrina de Aguiar Pereira Marques, Equated Principal Researcher and Dr. Fernando José Neto da Silva, Assistant Professor, both of University of Aveiro.

7. – 1 doctorate position for the development of research activities in the Centre for Research in Communication, Information and Digital Culture, Aveiro pole, (CIC-DIGITAL), being the description of each vacancy and the evaluation criteria described below.

7.1 – Vacancy 1 (REF. - 181 - 97-ARH/2018)

7.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Communication Sciences and Technologies with special focus on the domain of digital accessibility for people with blindness and low vision.

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 SFRH/BPD/112129/2015.

7.1.3. - The admission requirements are the doctoral degree in Communication Sciences and Technologies, or in Information and Communication on Digital Platforms or in another related scientific area and demonstrated experience at postdoctoral level in conceptualization and prototyping of digital solutions to assist people with blindness and low vision, namely support in Interactive Television (iTV), 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:

$$FR = (\text{Strand 1} * 0.75) + (\text{Strand 2} * 0.2) + (\text{Strand 3} * 0.05)$$

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

President: Dr. Fernando Manuel dos Santos Ramos, Full Professor of the University of Aveiro;

Effective members: Dr. Rui Manuel de Assunção Raposo and Dr. Pedro Alexandre Ferreira dos Santos Almeida, both Assistant Professors of the University of Aveiro;



Substitute members: Dr. Maria João Lopes Antunes and Dr. Telmo Eduardo Miranda Castelão da Silva, both Assistant Professors of the University of Aveiro.

8. – 2 doctorate positions for the development of research activities in the Research Centre for Didactics and Technology in Teacher Education (CIDTFF), being the description of each vacancy and the evaluation criteria described below.

8.1 – Vacancy 1 (REF. - 182 - 97-ARH/2018)

8.1.1. – This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Teaching Methodologies and Educational Technology, in the specialization area of Sciences Teaching Methodologies, with special focus on the domains of integration of mobile and augmented reality technologies, game-based learning and Massive Open Online Course (MOOC).

8.1.2. – This vacancy is opened under the terms of no. 1 of article 23 of the RJEC, taking into account the fellowship with the reference BI/UI57/7432/2016.

8.1.3. – The admission requirements are the doctor degree in Didactics and Training, branch of Didactics and Curricular Development, demonstrated experience after the PhD conclusion in mobile learning, augmented reality, game-based learning and MOOC in the area of Science Education, 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 results obtained in the criteria identified in point 3.1. of this public notice, the final result (FR) being expressed in a scale of 0 to 20, taking into account the following formula:

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

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

President: Dr. Maria Helena Almeida Beirão de Araújo e Sá, Associate Professor with “Agregação” of the University of Aveiro;



Effective members: Dr. António Augusto de Freitas Gonçalves Moreira, Associate Professor and Nilza Maria Vilhena Nunes da Costa, Full Professor both of the University of Aveiro;

Substitute members: Dr. Luís Manuel Ferreira Marques, Associate Professor with “Agregação”, Retired and Dr. Rui Marques Vieira, Assistant Professor with “Agregação” of the University of Aveiro.

8.2 – Vacancy 2 (REF. - 183 - 97-ARH/2018)

8.2.1. – This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Didactics and Educational Technology, in the specialization area of Educational Technology, with special focus on the domain of geographical citizen science networks connecting smart open cities and schools.

8.2.2. – This vacancy is opened under the terms of no. 1 of article 23 of the RJEC, taking into account the fellowship with the reference BPD/UI57/5280/2015.

8.2.3. – The admission requirements are the doctor degree in Multimedia in Education, demonstrated experience at postdoctoral level in the area of geographical citizen science networks connecting smart open cities and schools, substantiated by a solid set of publications in the educational potential of geospatial technologies 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 results obtained 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:

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

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

President: Dr. Maria Helena Almeida Beirão de Araújo e Sá, Associate Professor with “Agregação” of the University of Aveiro;

Effective members: Dr. António Augusto de Freitas Gonçalves Moreira, Associate Professor and Dr. Filipe José Casal Teles Nunes, Assistant Professor, both from the University of Aveiro;



Substitute members: Dr. Rui Marques Vieira, Assistant Professor with “Agregação” and Dr. Luís Manuel Ferreira Marques, Associate Professor with “Agregação”, retired, both of University of Aveiro.

9. –1 doctorate position for the development of research activities in the I3N - Institute for Nanostructures, Nanomodelling and Nanofabrication, being the description of each vacancy and the evaluation criteria described below.

9.1 – Vacancy 1 (REF. - 184 - 97-ARH/2018)

9.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Physics, with special focus on Optimisation of structure and function of complex networks with application to information, technological and biological networks.

9.1.2. – 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/UI96/5530/2015

9.1.3. - The admission requirements are the doctor degree in Physics, demonstrated experience at postdoctoral level in analytical and computational studies of complex systems namely in complex networks (simplex and multiplex), development of models with application of concepts of percolation (ex: explosive percolation), epidemiologic models, study of manifolds properties, among others in Statistical Physics, 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.

9.1.4. – 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:

$$FR = (\text{Strand 1} * 0.90) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

9.1.5- 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 the University of Aveiro;

Effective members: Professor Dr. José Fernando Ferreira Mendes, Full Professor and Dr. Sergey Dorogovtsev, Equated Coordinator Researcher, both of the University of Aveiro.



Substitute Members: Dr. António Luís Campos de Sousa Ferreira, Associate Professor and Doctor Gareth John Baxter, Equated Principal Researcher, both of the University of Aveiro.

10. – 7 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.

10.1 – Vacancy 1 (REF. - 185 - 97-ARH/2018)

10.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Environmental Sciences and Engineering – Environmental Technologies, with special focus on the domains of analytical chemistry, environmental biotechnology, water remediation.

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/112576/2015.

10.1.3. - The admission requirements are the doctoral degree in Chemistry and demonstrated experience at postdoctoral level in Water remediation through the use of innovative technologies, with focus on living macroalgae and nanomaterials; Assessment of environmental contamination and potential impacts on biota; substantiated by a solid set of publications in this area, with a minimum requirement of Papers=25; Citations (without self citations)=280, 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:

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

10.1.5- 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: 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.

10.2 – Vacancy 2 (REF. - 186 - 97-ARH/2018)

10.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area Biology, sub areas of Ecology and Biodiversity – Entomology, with special focus on the domains of Identification of autochthonous coastal insects.

10.2.2. – 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/102965/2014.

10.2.3. - The admission requirements are the doctoral degree in Ecosystem Biology and demonstrated experience at postdoctoral level in the identification of autochthonous coastal insects, their ecology, trophic relationships, and fatty acid analysis. substantiated by a solid set of publications in this are, with a minimum requirement of Papers=8; Citations (without self-citations)=50, a 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:

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

10.2.5- 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: 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.

10.3 – Vacancy 3 (REF.-187 - 97-ARH/2018)



10.3.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Environmental Sciences and Engineering - Environmental Technologies, with special focus on the domains of biological treatment processes for environmental remediation using mixed microbial cultures.

10.3.2. – 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 BPD/UI88/3571/2017.

10.3.3. - The admission requirements are the doctoral degree in Biomedical Sciences (specialized in Morphological Sciences) and demonstrated experience at postdoctoral level in operation of bioreactors with mixed microbial cultures; soil protection measures; soil application and mobility of biochar; research project regarding the use of biochar for microbial assisted soil remediation, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=13; Citations (without self-citations)=129, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.3.4. – 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:

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

10.3.5- 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: 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.

10.4 – Vacancy 4 (REF.-188 - 97-ARH/2018)

10.4.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology, sub-area of Ecology and Biodiversity area of expertise Ecotoxicology with special focus on the evaluation of the impacts



of contaminants and climate change on marine invertebrates, through the use of biochemical and physiological tools

10.4.2. – 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/107739/2015.

10.4.3. - The admission requirements are the doctoral degree in Biology and demonstrated experience at postdoctoral level in the study of Impacts of climate change and pollutants in marine invertebrates, including polychaetes; biochemical (oxidative stress and energetic reserves) and physiological markers (regenerative ability in polychaetes) in ecotoxicological analysis, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=20; Citations (without self-citations)=240, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.4.4. – 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:

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

10.4.5- 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: 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.

10.5 – Vacancy 5 (REF.-189 - 97-ARH/2018)

10.5.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biology - with special focus on ecological dynamics of antimicrobial resistance in unguulates.

10.5.2. – 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 SFRH/BPD/112482/2015.



10.5.3. - The admission requirements are the doctoral degree in Ecology and demonstrated experience at postdoctoral level in wildlife management and conservation, reintroduction biology, ungulates monitoring, habitat suitability models applied to ungulates conservation, attracting funding as PI, students supervision, papers as senior author, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=30 Citations (without self-citations)=68, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.5.4. – 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:

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

10.5.5- 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: 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.

10.6 – Vacancy 6 (REF.-190 - 97-ARH/2018)

10.6.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Agricultural Sciences and Technology - Environment and Agriculture with special focus on Postfire erosion and mitigation and Soil science

10.6.2. – 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/UI88/6291/2015.

10.6.3. - The admission requirements are the doctoral degree in Biology – Soil Science and demonstrated experience at postdoctoral level in the Assessing the impacts of silvicultural practices on soil functions in recently burnt areas and their mitigation by best practices, substantiated by a solid set of publications in this area, with a minimum requirement of



Papers=20; Citations (without self-citations)=300, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

10.6.4. – 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:

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

10.6.5- 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: Dr. Valdemar Inocência 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.

10.7 – Vacancy 7 (REF.-191 - 97-ARH/2018)

10.7.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Agricultural Sciences and Technology - Environment and Agriculture, with special focus on Post-fire hydrologic and erosive processes; Hydrological modelling;

10.7.2. – 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/UI88/6291/2016.

10.7.3. - The admission requirements are the doctoral degree in Environmental Science and Engineering and demonstrated experience at postdoctoral level in researching the impacts of forest wildfires on the hydrologic response and soil erosion, with a special emphasis on the application, adaptation and testing of soil erosion models considering post-fire management and rehabilitation measures, substantiated by a solid set of publications in this area, with a minimum requirement of Papers=10; Citations (without self-citations)=175, and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.



10.7.4. – 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:

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

10.7.5- 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: Dr. Valdemar Inocência 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.

11. – 11 doctorate positions 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.

11.1 – Vacancy 1 (REF.-192 - 97-ARH/2018)

11.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Medical Biotechnology, with special focus on the use of ionic liquids as purification and concentration platforms for environmental contaminants and disease biomarkers, and on the development of new pharmaceutical formulations based on ionic liquids.

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 BPD/UI89/2802/2016.

11.1.3. - The admission requirements are a doctoral degree in Biology, demonstrated experience at postdoctoral level on epidemiological surveys, on human exposure assessment to endocrine disrupting chemicals, on the use of ionic liquids as purification and concentration platforms for environmental contaminants and diseases biomarkers, and on the development of new therapeutic strategies for noncommunicable diseases based on ionic liquids, 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:

$$FR = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.2) + (\text{Strand 3} * 0.1)$$

11.1.5. - 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 the University of Aveiro;

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

Substitute members: Dr. Ana Paula Mora Tavares, Equated Assistant Researcher and Professor D. João Filipe Colardelle da Luz Mano, Full Professor, both of University of Aveiro.

11.2 – Vacancy 2 (REF.-193 - 97-ARH/2018)

11.2.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of CEM-Materials Science and Engineering, with special focus on the synthesis of conductive coatings and all associated characterization, particularly in the development and optimization of efficient electrodes integrated onto water regeneration systems.

11.2.2. – 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/UI50/4119/2016.

11.2.3. - The admission requirements are a doctoral degree in Materials Science and Engineering, demonstrated experience at postdoctoral level on materials synthesis and characterization, particularly on CVD doped diamond thin film coatings, functional characterization using electrochemistry and qualitative/quantitative analytical chemistry, Scanning/Transmission Electron Microscopy and Atomic Force Microscopy for physical evaluation, substantiated by a solid set of publications in these areas and a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.



11.2.4. – 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:

$$FR = (\text{Strand 1} * 0.6) + (\text{Strand 2} * 0.4)$$

11.2.5. - 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 the University of Aveiro;

Effective members: Dr. Filipe José Alves de Oliveira, Equated Principal Researcher 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. João António Labrincha Batista, Associate Professor with “Agregação”, both of University of Aveiro.

11.3 – Vacancy 3 (REF.-194 - 97-ARH/2018)

11.3.1. - 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 photocatalysis (liquid- and gas-solid phase), nano-synthesis, advanced X-ray methods, optical spectroscopy, functionalised exposed building materials.

11.3.2. – 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/UI89/5681/2016.

11.3.3. - The admission requirements are a doctoral degree in Materials Engineering, demonstrated experience at postdoctoral level on the sol-gel synthesis of (surface modified) metal-oxide nanoparticles; advanced X-ray methods for structural and microstructural analyses, as well as full quantitative phase identification; spectroscopy methods; liquid- and gas-solid phase photocatalysis; functionalisation on exposed building 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.

11.3.4. – 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:



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

11.3.5. - 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 the University of Aveiro;

Effective members: Dr. João António Labrincha Batista, Associate Professor with “Agregação” and Professor Dr. Fernando Manuel Bico Marques, Full Professor, both of University of Aveiro;

Substitute members: Professor Dr. Luís António Ferreira Martins Dias Carlos and Jorge Ribeiro Frade, both Full Professors of University of Aveiro.

11.4 – Vacancy 4 (REF.-195 - 97-ARH/2018)

11.4.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Materials Science and Engineering (CEM), with special focus on the synthesis of inorganic nanomaterials, namely lamellar double hydroxides (LDHs), for the intercalation of active compounds and their controlled release and the interfacial functionalization of nanomaterials to improve their stability and / or compatibility.

11.4.2. – 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/UI50/6902/2015.

11.4.3. - The admission requirements are a doctoral degree in Chemistry, demonstrated experience at postdoctoral level on the development of inorganic nanomaterials, namely lamellar double hydroxides (LDHs), for the intercalation of active compounds and their controlled release ;the interfacial functionalization of nanomaterials to improve their stability and / or compatibility and experience in coatings of magnesium alloys for biomedical use, 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.

11.4.4. – 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:

$$FR = (\text{Strand 1} * 0.7) + (\text{Strand 2} * 0.2) + (\text{Strand 3} * 0.1)$$

11.4.5. - 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: Dr. João André da Costa Tedim, Assistant Professor and Dr. Rui Ramos Ferreira e Silva, Associate Professor, both of University of Aveiro;

Substitute members: Dr. Filipe José Alves de Oliveira, Equated Principal Researcher and Professor Dr. Mário Guerreiro Silva Ferreira, Invited Full Professor, both of University of Aveiro.

11.5 – Vacancy 5 (REF.-196 - 97-ARH/2018)

11.5.1. - 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 development of micro/nanocapsules for incorporation in biocompatible/biodegradable coatings for corrosion control or protection of Mg alloys used in biomedical applications.

11.5.2. – 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 BPD/UI50/6577/2016.

11.5.3. - The admission requirements are a doctoral degree in Chemistry, demonstrated experience at postdoctoral level on the synthesis of micro/nanomaterials for encapsulation of active species, by different techniques, for controlled release in corrosion protection in different coating applications and development of new coatings for metal alloys, 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.

11.5.4. – 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:

$$FR = (\text{Strand 1} * 0.6) + (\text{Strand 2} * 0.2) + (\text{Strand 3} * 0.2)$$

11.5.5. - 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: Dr. João André da Costa Tedim, Assistant Professor and Dr. Rui Ramos Ferreira e Silva, Associate Professor, both of University of Aveiro;



Substitute members: Dr. Filipe José Alves de Oliveira, Equated Principal Researcher and Professor Dr. Mário Guerreiro Silva Ferreira, Invited Full Professor, both of University of Aveiro.

11.6 – Vacancy 6 (REF.-197 - 97-ARH/2018)

11.6.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Chemistry with special focus on inorganic materials chemistry, in particular silicate.

11.6.2. – 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 BPD/CICECO/3150/2016.

11.6.3. - The admission requirements are a doctoral degree in Chemistry, demonstrated experience at postdoctoral level on the synthesis of solid materials, such as polyoxometalates and silicates, and their structural characterization using advanced methodologies, such as powder X-ray diffraction, SEM and TEM, 3D optical profilometry, solid-state NMR, FT-Raman, rheology, static contact angle measurement, 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.

11.6.4. – 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:

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

11.6.5. - 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: Dr. Helena Isabel Seguro Nogueira, Assistant Professor and Dr. Filipe Alexandre Almeida Paz, Principal Researcher, both of University of Aveiro;

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



11.7 – Vacancy 7 (REF.-198 - 97-ARH/2018)

11.7.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Biotechnology, with special focus on the development of advanced biomaterials and their combination with human cells for regenerative medicine and treatment of diseases.

11.7.2. – 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 SFRH/BPD/111354/2015.

11.7.3. - The admission requirements are a doctoral degree in Biomedical Engineering, demonstrated experience at postdoctoral level on the (i) development of multifunctional biomaterials in the form of hydrogels and microparticles prepared from natural origin polymers for tissue regeneration and disease treatment purposes, (ii) development and application of miniaturized high-throughput screening platforms and methodologies to assess biomaterials-cells and heterotypic intercellular interactions, and (iii) handling and differentiation of mammalian stem cells (specifically from adipose and bone marrow origin), their characterization by biochemical and image/microscopy-based protocols, 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.

11.7.4. – 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:

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

11.7.5. - 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 Filipe Colardelle da Luz Mano, Full Professor and Dr. Ana Maria Pissarra Coelho Gil, Associate Professor with “Agregação”, both of University of Aveiro;

Substitute members: Professor Dr. Armando Jorge Domingues Silvestre, Full Professor and Dr. Mara Guadalupe Freire Martins, Coordinator Researcher, both of University of Aveiro.



11.8 – Vacancy 8 (REF.-199 - 97-ARH/2018)

11.8.1. - 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 computing modelling, using approaches based on the electronic density functional theory, for the design and/or optimization of chemical corrosion inhibitors.

11.8.2. – 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 BPD/UI89/6860/2016.

11.8.3. - The admission requirements are the doctor degree in Chemistry, demonstrated experience at postdoctoral level in the study of the structure, energetic/reactivity and chemical characterization of corrosion inhibitors, of metallic substrates and of corrosion inhibitors-metallic substrate complexes, in both computing and experimental dimensions, 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.

11.8.4. – 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:

$$FR = (\text{Strand 1} * 0.90) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

11.8.5. - 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. Mário Guerreiro Silva Ferreira, Invited Full Professor, both of University of Aveiro;

Substitute members: Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor and Dr. Filipe José Alves de Oliveira, Equated Principal Researcher, both of University of Aveiro.

11.9 – Vacancy 9 (REF.-200 - 97-ARH/2018)

11.9.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Materials Science and Engineering.



11.9.2. – 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 BPD/UI50/1321/2016.

11.9.3. - The admission requirements are a doctoral degree in Materials Science or similar, demonstrated experience at postdoctoral level on the growth of non-doped and boron doped CVD diamond coatings using the HFCVD technique, production of ceramic materials in particular Si₃N₄, electrical, microstructural, morphological and chemical characterization of diamond coatings and ceramic 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.

11.9.4. – 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:

$$FR = (\text{Strand 1} * 0.6) + (\text{Strand 2} * 0.4)$$

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

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

Effective members: Dr. Rui Ramos Ferreira e Silva, Associate Professor and Dr. Filipe José Alves de Oliveira, Equated Principal Researcher, both of University of Aveiro;

Substitute members: Dr. João António Labrincha Batista, Associate Professor with “Agregação” and Dr. João André da Costa Tedim, Assistant Professor, both of University of Aveiro.

11.10 – Vacancy 10 (REF.-201 - 97-ARH/2018)

11.10.1. - 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 study of liquid-liquid phase equilibria with ionic liquids, water and salts, including the study and characterization of two-phase aqueous systems with ionic liquids and eutectic solvents for the extraction and purification of biomolecules.

11.10.2. – 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/109057/2015.



11.10.3. - The admission requirements are a doctor degree in Chemistry or Chemical Engineering, demonstrated experience at postdoctoral level on the study and characterization of alternative solvents, namely in aqueous biphasic systems of ionic liquids and eutectic solvents, and their use for the extraction of value-added compounds, 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.

11.10.4. – 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:

$$FR = (\text{Strand 1} * 0.90) + (\text{Strand 2} * 0.05) + (\text{Strand 3} * 0.05)$$

11.10.5. - 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. João Manuel Costa Araújo Pereira Coutinho, Full Professor and Dr. Mara Guadalupe Freire Martins, Coordinator Researcher both of University of Aveiro;

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

11.11 – Vacancy 11 (REF.-202 - 97-ARH/2018)

11.11.1. - 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 development and characterization of biomaterials (polymers, nanomaterials and functional oxides) and their functionalisation, or modulation of electric properties, for use in regenerative medicine.

11.11.2. – 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/111325/2015.

11.11.3. - The admission requirements are the doctor degree in Biochemistry, Molecular Biology or Biomedicine, demonstrated experience at postdoctoral level on the development and functionalisation of biomaterials for use in regenerative medicine; their macro and micro



structural characterization; in vitro essays to assess the biological properties of such materials; metabolomics studies to obtain the metabolomic profile of cells after growth over the developed materials; and in vivo biocompatibility studies, 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.

11.11.4. – 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:

$$FR = (\text{Strand 1} * 0,9) + (\text{Strand 2} * 0,1)$$

11.11.5. - 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. Paula Maria Lousada Silveirinha Vilarinho, Associate Professor and Dr. Ana Maria Pissarra Coelho Gil, Associate Professor with “Agregação”, both of University of Aveiro;

Substitute members: Dr. Maria Helena Figueira Vaz Fernandes, Associate Professor and Dr. Maria Elisabete Jorge Vieira da Costa, Assistant Professor, Both of University of Aveiro.

12. – 1 doctorate position for the development of research activities in the Rectory, being the description of each vacancy and the evaluation criteria described below.

12.1. – Vacancy 1 (REF.-203 - 97-ARH/2018)

12.1.1. - This vacancy is intended to develop a work plan for research and knowledge dissemination in the scientific area of Higher Education, Science and Technology Policy with special focus on the domains of research, research development, innovation, R&D funding programs, research promotion and dissemination, research internationalization.

12.1.2. - 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 BGCT/REITORIA/7018/2014.



12.1.3. - The admission requirements are the doctoral degree in Biochemistry and demonstrated experience on 1) identification of funding and cooperation opportunities University-external entities, from the management and development of applications, to the monitoring of decision and execution, including management and technical and scientific monitoring of projects, in particular regarding national, regional and international funding programs and opportunities; 2) technical support and assistance to the implementation of strategies for research, internationalization, innovation and technology and knowledge transfer; 3) management and exploitation/valorization of intellectual property rights; 4) project evaluation and advice upon request by national or foreign bodies; Complementary training in Industrial Property and Technology and Knowledge Transfer, substantiated by a scientific and professional curriculum that represents the appropriate profile to implement the activities to be developed.

12.1.4. – 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:

$$FR = (\text{Strand 3} * 1.0)$$

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

President: Professor Dr. Artur Manuel Soares da Silva, Full Professor of University of Aveiro;

Effective members: Professor Dr. Luís Filipe Pinheiro de Castro and Professor Dr. João Manuel da Costa e Araújo Pereira Coutinho, both Full Professors of University of Aveiro;

Substitute Members: Dr. Manuel António da Silva Santos, Associated Professor and Professor Dr. Luís António Ferreira Martins Dias Carlos, Full Professor both of University of Aveiro.

13 — 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.



14 — 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.

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

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.*