RESOLUTION TO CALL FOR A BEATRIZ GALINDO SENIOR RESEARCH POSITION IN THE FACULTY OF MEDICINE AT UNIVERSIDAD AUTÓNOMA DE MADRID (BEAGAL18/00098)

Universidad Autónoma de Madrid offers a position for a senior researcher within the Beatriz Galindo Programme (Orden ECD/365/2018, of Secretaria General de Universidades at the Ministerio de Ciencia, Innovación y Universidades). The main goal of this Programme is to attract and retain research talent from abroad in an attempt to reinforce the excellence and competitiveness of faculty members in Spanish Public Universities.

All details of the Beatriz Galindo Call can be found at:


BASIC INFORMATION

1. Title: BEATRIZ GALINDO SENIOR RESEARCH POSITION AT THE FACULTY OF MEDICINE- UNIVERSIDAD AUTÓNOMA DE MADRID

2. Candidate profile: Senior

   Required Education Level: PhD

   Years of experience at a foreign institution: At least 7 years of postdoctoral experience*

   *The date of reference to determine the duration of the stay at a foreign institution will be May 24th 2019.

PROFILE

Universidad Autónoma de Madrid has identified the creation and implementation of the Degree in Biomedical Engineering (BE) as one of its priorities. For this purpose, the Faculty of Medicine must reinforce its faculty with professionals of outstanding capabilities in teaching, research and technology development in this area.

Beatriz Galindo Program for attraction of research talent seems a perfect call to hire a Beatriz Galindo Senior Professor for the Faculty of Medicine at UAM. The candidate should meet the following requirements:

1. Intention to develop his/her professional career at the UAM after a first period as Beatriz Galindo Professor.
2. Internationally-recognized and accredited research in the field of BE.
3. Strong leadership. Experience in the management of research groups. Research support by grants from ERC or other international agencies as well.
as experience in creation of new entities on biomedical research and technology development will be valued.

4. Solid international scientific connection. Consolidated international profile.

5. Extensive experience in supervision of PhD and Master's thesis students.

6. Teaching experience in prestigious universities.

**Teaching profile:**

The candidate should be a vocational professor, with great interest in innovation, and with the ability to provide bilingual teaching (Spanish / English) in different subjects of the new Degree in Biomedical Engineering.

**Researcher and Transfer Profile:**

In addition to the above general professional skills, the candidate is required to have:

1. An excellent CV and leadership in research, being able to open new research lines at the Faculty of Medicine.

2. Proven ability to raise funds for research and effective administrative management.

3. Proven ability to attract research talent and institutional relationships with non-academic entities including companies, non-for profit foundations, government agencies…

4. Demonstrated experience in the training of young researchers, technicians and / or technologists.

All details about the teaching project, research project and knowledge transfer project requested by the University can be found in Annex 1.

**3. Research field**

Medicine

**4. Type of Contract**

- Full time contract for 4 years
- Contract to be signed within 2 months from the date of resolution of the selection process.
- Salary: 90.000€/year including social costs.

Stabilization of the ‘Beatriz Galindo’ distinguished researcher within the academic staff of the University, at the end of the contract:

Within the fourth year and upon positive evaluation, UAM will open a call for a permanent position with the academic profile of the distinguished Beatriz Galindo researcher.
More details about the procedure of evaluation and stabilization can be found in Annex 2.

5. Submission of candidatures

Candidates must use the form available at:


Applications must include, at least, the following information:

a) Teaching project proposed by the candidate that must take into account the requirements of the University (Annex 1).

b) Research project and knowledge transfer project proposed by the candidate that must take into account the requirements of the University (Annex 1).

c) Curriculum vitae of the candidate, including all predoctoral and postdoctoral positions and current or recent relations with foreign universities or research institutions.

d) Report of the impact and return to the University of the teaching, research and knowledge transfer project proposed by the candidate.

e) Letter of interest of any of the departments of the Faculty of Medicine.

Candidatures must be submitted in English.

Application Deadline: From April 24th, 2019 at 8 a.m. to May 24th, 2019 at 17 p.m (Spanish time).

6. Provisional list of admitted and excluded candidatures from the selection process

At the end of the application submission period, applicants whose applications are incomplete or contain correctable errors will be asked to remedy the deficiencies or to submit the necessary documents within a maximum of ten business days.

If the applicant fails to do so, it will be understood that the application has been withdrawn, pursuant to Article 68 of Law 39/2015 of 1 October 2015 on Common Administrative Procedures for Public Administrations.

7. Evaluation of candidatures

Candidatures will be evaluated by the international panel of experts appointed by the Secretaría General de Universidades of the Ministerio de Ciencia, Innovación y
Universidades with a score between 0 and 10 points according to the following criteria:

a) Teaching project, up to 2.5 points.
   
   1º Quality of the teaching project, up to 1.25 points
   2º Programming of the teaching project, up to 1.25 points.

b) Research Project, up to 2.5 points.
   
   1º Quality of the research project, up to 1.25 points.
   2º Programming of the research project, up to 1.25 points.

c) Knowledge transfer project, up to 2.5 points.
   
   1º Quality of the knowledge transfer project, up to 1.25 points.
   2º Programming of the knowledge transfer project, up to 1.25 points.

d) Impact and return for the University of the teaching, research, and knowledge transfer project, up to 2.5 points.
   
   1º Return of the teaching project, up to 1.25 points.
   2º Return of the research project, up to 0.75 points.
   3º Return of the knowledge transfer project, up to 0.5 points.

**Important**: To evaluate all these criteria the curriculum vitae of the candidate will be considered.

**8. Hiring University & Offer Posting Contact Details**

**University**: Universidad Autónoma de Madrid

**Faculty**: Faculty of Medicine

**Address**: C/ Arzobispo Morcillo, 4
UAM
28029 Madrid

**9. Incompatibilities**

The regime of incompatibilities of the contract is established in the articles 19 and 21 of the Orden ECD/365/2018, of Secretaría General de Universidades at the Ministerio de Ciencia, Innovación y Universidades.

**10. Publication of the resolution**

The decision containing the successful candidate and a reserve list will be published on the University official website and on the electronic services of the
Secretaría General de Universidades at the Ministerio de Ciencia, Innovación y Universidades.

Against this decision, interested parties may appeal for reconsideration within a period of one month before the University, or appeal to the Contentious-Administrative Chamber of the Supreme Court of Justice of Madrid within a period of two months. These time limits shall commence on the day following the publication of the decision. All these procedures are in accordance with Spanish Laws on the Common Administrative Procedure of the Public Administration and Contentious-Administrative Jurisdiction.

Madrid, 23 de abril de 2019

RAFAEL
GARESSE
ALARCON - 24800743G

Fdo: Rafael Garesse Alarcón
Rector
Annex 1: Teaching project and research and knowledge transfer project presented by the University and selected in this call

1. Teaching project

The main goal should be a large contribution to the implementation of the Biomedical Engineering degree at UAM. For this purpose, the candidate will lead or co-lead the project through four specific actions:

1. To prepare an application to ANECA for the implementation of a new Degree in Biomedical Engineering at UAM (2018-2019).
2. To start up and to develop the new Degree with the collaboration of other Spanish or foreign universities as well as international companies of Healthcare and Pharmacy, Medical Technology, Engineering, e-Health, Information technology, and Artificial Intelligence. This milestone should begin as soon as ANECA approves the new Biomedical Engineering Degree. The candidate will teach courses ideally related to his/her research area. He/she will also manage agreements of academic collaboration with foreign universities for exchange of the new Degree students and faculty.
3. To design and implement a clinical and research training program at University hospitals and health science centers affiliated to the UAM, at clinical services that use medical technologies, biomaterials, bioinformatics, biosensors and molecular-cellular-tissue-organ bioengineered devices. This training program will allow students to become familiar with clinical practice and to the different units of hospitals as well as to understand the difficulties and limitations of current medical technology. This program will differ from others by the entrepreneurial promotion of the students, who will be trained in the detection of clinical needs and the implementation of innovative and economically viable scientific / technological solutions. This is expected to be done in collaboration with different research groups of the University, the Hospitals and affiliated research Centers.
4. To display an educational plan for research training of undergraduate, graduate and doctoral students, entailing an international program for Visiting Research Scholars, and agreements for the exchange of students with foreign universities in the field of Biomedical Engineering.

The creation of the Degree in Biomedical Engineering is in full alignment with the goals of the Campus of International Excellence (CEI) UAM+CSIC, as “Biotechnology, Biomedicine and Food Sciences” is one of its four strategic areas.

2. Research project and knowledge transfer

The Degree in Biomedical Engineering is of the highest strategic interest for UAM because of its strong socioeconomic impact, in attracting not only students, but also research and innovation talent. Biomedical Engineering integrates computational tools, biological systems and design principles in the management of human diseases. It also allows the development and application of technologies related to capture and processing of biomedical signals and images. The medical image, allows a non-invasively anatomy visualization and functionality of organs and tissues, tissue engineering and stem cells, focused on the synthetic generation of tissues and even
biological organs, or the design and development of medical devices for diagnosis or treatment.

On this basis, the candidate's research and technology development project should have the following features:

1. The project should rest on a long track of clinical/epidemiological research and/or experimental research on pathogenic molecular and genetic mechanisms of diseases, ideally connected with new R&D and innovation initiatives in the field of Biomedical Engineering, of help for diagnosis and treatment.

2. It should take advantage of technologies associated with any of the varied Biomedical Engineering approaches, e.g. biomaterials and bioimplantation, biomechanics and mechatronic rehabilitation systems, biosensing systems, molecule-cell-tissue-organ engineering, nanotechnology, radiofrequency and microwaves technologies, electronic bioinstrumentation, bioinformatics, algorithms and data structures, telemedicine and e-Health systems, digital treatment of signals and images, modeling and simulation, artificial intelligence or robotics.

3. Research and technological development goals should focus on opportunities for improvement in the quality of healthcare, thus project should incorporate bidirectional translational research actions, such as Bench-to-Bedside approach of relevant clinical unresolved problems.

4. The project should include a financing plan that combines funds from international, national or regional R & D programs with others from University-Company collaboration agreements.

5. The expected results of the project should be patentable, and industrially exploitable. Therefore, the project should also include a sound business plan potentially funded by public-private programs for technology and commercialization development in the field of Biomedical Engineering that would encourage further faculty appointments in Biomedical Engineering.

6. The activities of the project should be done with good clinical (GCPs), laboratory (GLPs) and manufacturing practices (GMPs), following standardized operating procedures (SOPs) and mandatory compliance standards audited by an external quality agency.
Annex 2: Procedure for stabilization of the ‘Beatriz Galindo’ distinguished researcher within the academic staff of the University

Universidad Autónoma de Madrid (UAM) has the firm determination to incorporate the selected researcher into the Academic Staff of the University once the Beatriz Galindo contract is over. Within the fourth year and upon positive evaluation and accreditation by ANECA, UAM will open a call for a permanent full professor position with the academic profile of the distinguished Beatriz Galindo researcher.

As far as the aforementioned evaluation process is concerned, article 13 of the Beatriz Galindo Call (BOE-A-2018-4779) establishes a follow-up of the researchers’ activity by an international panel of experts who will evaluate it taking into account the Annual Reports that the Universities must submit, and that will aim at certifying the achieved objectives. Each of the individual proposals will constitute an obligatory reference to evaluate the performance of the corresponding distinguished researcher, especially at the end of the third year of the contract. However, we understand it is necessary to identify also some broad criteria and indicators that the UAM will use in the preparation of these 'Annual Reports', increasingly demanding throughout the contract period; namely:

- Leadership and relevance of the research activity - reflected by abundant top-quality scientific contributions produced by its own research group or, otherwise, by a recognizable subgroup within a broader research group.
- Capacity to attract external resources - obtaining funds in the international arena or, at least, drawing up competitive proposals in those programmes.
- Outstanding role in the scientific community in its field of knowledge - visible activity development as editor or reviewer of scientific journals, as national and international expert, as invited lecturer, as member of scientific societies, as recipient of scientific awards or honours, etc.
- Active role at different university degrees - participation in projects of teaching innovation, design of teaching activities, supervision of doctoral theses, etc.
- Communication and transmission of knowledge to external actors - design and participation of ‘open day’ activities, knowledge dissemination…
- The researcher shall demonstrate a proven record of various tasks in the academic community (organizing conferences, editing publications, undertaking high-level academic evaluation tasks and holding significant positions in scientific organizations).