PhD student_CADENCE / Catalytic Dual-Function Devices Against Cancer (H2020 nº GA 742684)

- ORGANISATION/COMPANY
  UNIVERSIDAD DE ZARAGOZA
- RESEARCH FIELD
  Computational modeling
- RESEARCHER PROFILE
  First Stage Researcher (R1)
- APPLICATION DEADLINE
  (PROVISIONAL)

30/10/2018 17:00 - Europe/Madrid
- LOCATION
  Spain › Zaragoza
- TYPE OF CONTRACT
  Temporary
- JOB STATUS
  Full-time

- HOURS PER WEEK
  37.5
- EU RESEARCH FRAMEWORK PROGRAMME
  H2020 / ERC
- REFERENCE NUMBER
  742684

- Development of reaction-diffusion equations to simulate the behavior and activation of nanoparticles.

- Numerical development of glucose transport models.

- Simulation of tumour behaviour and experimental validation with in-vitro and in-vivo experiments.

- Numerical implementation of simulation of poroelastic behavior of tumor spheroids.

- Elaboration of summary reports and presentations (English preferentially).

- Preparation of scientific works and periodic reports.

- International mobility for collaboration in different research tasks.

Offer requirements
- REQUIRED EDUCATION LEVEL
  Computer Science or Applied Mathematics : Master Degree or equivalent
  OR
  Mechanical, Biomedical or Chemical Engineering: Master Degree or equivalent

Specific skill requirements
- Programming (C++, C and Python)
- Data analysis and representation (Paraview, matplotlib, MatLab)
- Basic knowledge of the mechanical and chemical bases of biological processes
- Basic knowledge as user of Finite Element softwares (Abaqus, Ansys, Comsol)

How to apply:
CV submission or further inquiries to Dr. Jose M. García Aznar (jmgaraz@unizar.es)
Provisional Deadline: December 23th 2018