



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

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| • ORGANISATION/COMPANY UNIVERSIDAD DE ZARAGOZA | 07/02/2018 14:00 - Europe/Madrid | • HOURS PER WEEK 37.5 |
| • RESEARCH FIELD Chemistry Engineering | • LOCATION Spain › Zaragoza | • EU RESEARCH FRAMEWORK PROGRAMME H2020 / ERC |
| • RESEARCHER PROFILE First Stage Researcher (R1) | • TYPE OF CONTRACT Temporary | • REFERENCE NUMBER 742684 |
| • APPLICATION DEADLINE | • JOB STATUS Full-time | |

- Synthesis of nanocatalysts via wet chemistry.
- Functionalization and bioconjugation of nanomaterials to enhance their biocompatibility in cell media.
- Morphological and chemical characterization of nanocatalysts by different techniques such as electronic microscopy, DLS, zeta-potential or spectroscopic methods (FT-IR, UV-Vis, Fluorescence).
- Analysis of the optical response of the nanocatalysts in the visible-near infrared ranges.
- Development of different synthesis strategies to tune the optical response of nanomaterials towards the NIR range.
- Use of advanced chromatographic techniques (HPLC) to determine the concentration of different analytes of interest such as glucose.
- Elaboration of summary reports and presentations (English preferentially).
- Preparation of scientific works and periodic reports.

Offer requirements

- REQUIRED EDUCATION LEVEL
Chemistry: Master Degree or equivalent
Engineering: Master Degree or equivalent

Skills/Qualifications

Bachelor Degree or equivalent in Chemistry, Material Science or Chemical Engineering and Master Degree in subjects related to synthesis of nanomaterials, catalysis, reactor design and/or fine analytical chemistry

Specific requirements

- Experience in the synthesis of nanomaterials and catalysts
- Experience in state-of-the-art characterization techniques
- Experience on the interpretation of analytical results related with the catalytic response of materials and their corresponding morpho-chemical characterization
- Experience with photocatalytic materials and photocatalytic reactors
- Experience in the bioconjugation of nanomaterials

How to apply:

Follow the instructions given in the official call (some requirements, to be accomplished):

<https://sede.unizar.es:8743/UZA/uza/es/AnunciosCiudadanoAction!seleccionarAnuncio.action?idAnuncio=18056>. Deadline: Feb. 7th 2018. At the same time, you could well contact Dr José L. Hueso (jlhueso@unizar.es).