16/01/2017   Job reference: PEJD-2016_IND-3217

POSTDOCTORAL POSITION[i]

A **two-year postdoctoral** position is available in the group of Prof. Fernando Martin. The position shall be co-financed by the European Social Fund under the 2016 call for the recruitment of post-doctoral researchers of the Madrid region (more details here).

The successful applicant shall develop an open project which aims to develop computational tools either for the description of ionization processes (for complex molecules, surfaces or nanostructures), the description of heterogeneous catalysis or materials synthesis. *The tools obtained should be prepared to run efficiently in HPC facilities and set ready for end users.*

The CampuS group at the Chemistry Department of the Universidad Autónoma de Madrid is focused on the theoretical study of the dynamics in isolated quantum systems (from the smallest to medium-sized systems, or extended ones) and the development of state-of-the-art theoretical tools which can help us to understand their properties and predict their behavior.

We seek for a post-doctoral researcher with a **strong background in any of the group research lines** (laser-matter interaction, surfaces or clusters) who complies with the set of restrictions imposed by the funders (see below).

Starting date: Expected start date is *February 15, 2017*. The position should normally start within one month from the publication of the resolution of the call here: http://www.madrimasd.org/madrid-ciencia-tecnologia/convocatorias-dgui/convocatorias-2016.

Remuneration: Gross annual salary (before applying national income taxes and social security contributions) amounts to roughly **26.500 €**. Researchers may receive additional funding to support the expenses derived from research missions and the attendance to international conferences.

Eligibility criteria: According to the specific call restrictions, applicants must:

(i)   hold a **PhD in Theoretical/Computational Physics, Chemistry or Informatics** (for degrees obtained in a foreign university, homologation is required)

(ii) be registered in the **National Youth Guarantee system** or be in a position to be a beneficiary of the system (please, check the specific nationality, unemployment and age requirements here: http://www.empleo.gob.es/es/garantiajuvenil/accesoJovenes.html)

(iii) be registered in any locality within the Madrid Community from August 31st, 2016

Selection Criteria: The selection will be made on the basis of demonstrated knowledge in the following fields:

1. Computational physics/chemistry methodologies and techniques,
2. Theoretical atomic and molecular physics / Quantum Chemistry,
3. Programming skills and code development (Fortran, C/C++, python, scripting languages, Linux/Unix, etc),
4. Knowledge on parallelization and optimization of codes (MPI, openMP, etc),
5. Handling of codes which are commonly used in the area of interest,

6. Previous experience in any of the areas of interest.

Application procedure: Applicants should send, within 15 days from the date of publication of this position (by January 31st):

- a motivation letter explaining the research line(s) in which you are interested and why,
- a detailed CV and contact information of two referees,
- a copy of the doctoral degree (and, where applicable, homologation credential), and
- a proof of being registered in the National Youth Guarantee system or proofs of being in a position to be a beneficiary of the said system.

All the documents must be sent in a single pdf file named as the candidate plus the research line he/she is interested in (e.g. **SURNAME_NAME-reserach_line.pdf**). Applications not following this procedure will be disregarded.

Upon evaluation of the applications received, selected candidates shall be contacted for an interview. Recommendation letters could be requested to referees during the selection process.

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[i] This call is co-financed by the European Social Fund through the Youth Employment Operational Program for the 2014-2020 programming period, as well as the Youth Employment Initiative (YEI).

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