



Call for researchers with Doctoral degree and Postdoctoral

The Research Center on Nanotechnology and Advanced Materials (CIEN-UC) of the Pontificia Universidad Católica de Chile seeks candidates for two vacancies as Postdoctoral Researcher, for join one of the lines of research mentioned below.

Applicants must meet one of the following profiles:

1. Biocompatible Nanomaterials

- At least a Doctoral degree with a strong formation in physics or engineering.
- Must have completed his/her Doctoral biological character issues.
- Special consideration will be given to those applications that accredit experimental research.

2. Materials Science-functionalization of surfaces

- At least Doctoral degree in a related field of materials science associated to science or engineering surfaces.
- Must contribute significantly to empower interdisciplinary research in materials science at the Engineering and Physics Faculties and strengthen ties between both academic units.
- Expert on border surface functionalization.

3. Nanomaterials for Energy and Environment

- At least a Doctoral degree in Physics or Chemistry.
- Must have skills that allow to him/her the interaction with researchers of the physics and chemistry units.
- Experience at the renewable energy area (production, storage and/or nanomaterials).
- It is desirable that the candidate has experience in the use of characterization techniques such as electron microscopy (SEM and TEM), atomic force microscopy, X-ray diffraction, UV-NIR spectroscopy, Raman.

4. Bio-Nanomaterials

- At least a Doctoral degree in Physics.
- Knowledge and experience in the setup, alignment and maintenance of optical, micromechanical and high vacuum systems and methods (required).
- Solid experience with AFM-techniques and the area of self-assembling organic layers is preferred.

5. Remediation technologies and water treatment

- At least a Doctoral degree with excellent training in chemistry and/or engineering.
- Have completed his/her doctorate in environmental issues and/or application of nanoparticles in this area.
- It is expected to have mastery of tools to work on issues as: water pollution, treatment technologies and/or analysis of environmental water matrices.
- Special consideration will be given to those applications that accredit experimental research.

- Must contribute significantly to empower interdisciplinary research in pollution/environmental decontamination between chemistry and engineering faculties.

If the applicant is in his/her terminal stage of study, he/she must certify that his/her thesis defense will be in a period of less than three months running from the date of publications of this call.

Requirements applicable to all profiles

- Willingness to take office on November 1st, 2014.
- Fluency in written and spoken English.
- Committed, proactive and strong communication skills that enable good teamwork.

Documentation required

- Curriculum Vitae.
- Photocopy of the diplomas that certifying the obtained degrees.
- Photocopy of identity card or passport.
- Presentation letter indicating the motivations of nomination, profile of postulation and how his/her work will contribute to the development of the respective line of research.
- Two reference letters.

Please send the documentation required to the following email address ccastillo@fis.puc.cl

Deadline to send the required documentation: August 31st, 2014.

For any additional information please contact Ms. Cynthia Castillo (ccastillo@fis.puc.cl)