



POST-DOC POSITION ANNOUNCEMENT

Post-doctoral fellowship

Institution: Institute for Nuclear Energy Research (IPEN), São Paulo, Brazil

Department: Materials Science and Technology Centre (CCTM)

Project: Localized corrosion resistance investigation and fatigue corrosion characterization of friction stir welded (FSW) high resistance aluminum alloys.

Duration: 18 months

Stipend: R\$ 6,819.30 (monthly)

Support: FAPESP – São Paulo Research Foundation (grant 2013/13235-6)

Supervisor: Prof. Dr. Isolda Costa

Deadline for proposal submission: 30.11.2016 (5 pm in Brazil)

Publication of selection result: 16.12.2016.

Start Date: 01.02.2017 (expected)

Task: Microstructure characterization of Al-Cu-Li alloys welded by FSW through FEG/SEM and TEM analysis. Localized corrosion resistance investigation of Al-Cu-Li alloys by Scanning Vibrating Electrode Technique (SVET).

Methods and Data: This Post-Doctoral appointment will search a correlation between the microstructure characteristics of the Al-Cu-Li alloys welded by FSW and their localized corrosion resistance. A corrosion mechanism will be proposed based on data obtained.

Qualification: The candidate should have a PhD in Corrosion of aluminum alloys in the last 7 years. The candidate should be fluent in English language. Knowledge and experience in Scanning Vibrating Electrode Technique (SVET) and Transmission Electron Microscopy (TEM) is desirable. The candidate should also have a strong history of publication in the field of Corrosion of aluminum alloys.

Rules: The scholarship is awarded following the rules and procedures of FAPESP for post-doctoral fellowships attached to Thematic Projects. Please read the information provided by FAPESP before applying: <http://www.fapesp.br/en/5100> and <http://www.fapesp.br/en/5427>.

Documentation for registration: 1. CV Lattes (www.lattes.cnpq.br) or Curriculum Vitae (foreigners); 2. MyCitation (Google Scholar); 3. Research Project (in Portuguese or in English), related to the topic object of this project with a maximum of 15 pages.

Support: The Institute for Nuclear Energy Research (IPEN) will provide institutional support for the awarded post-doctorate researcher. The candidate will have a working infrastructure, personal computer, internet connection, and access to IPEN's facilities.

Visa: Foreign nationals are required to have a working visa to receive a post-doc fellowship in Brazil.

How to Apply: Please send the following documents to the internet address egp01@ipen.br

- (a) Cover letter stating your qualification and why you are applying for the position.
- (b) CV containing your personal data, academic qualifications, and most relevant publications to date.
- (c) Link to personal page on sites such as Research Gate, Google Scholar or Academia.edu.
- (d) ORCID Research ID, if available.
- (e) Link to Lattes CV, if available.
- (f) A research project on the subject of the project with a maximum of 15 pages, either in Portuguese or in English, containing: introduction, objectives, methodology, methods of results analysis, conclusions and bibliographic references.