English version

THE RESEARCHER'S MOBILITY PORTAL • PORTUGAL

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Unique identifier: 8a030cba-9c0a-4757-80d2-109cd648d61a

English

1. Descrição do cargo/posição/bolsa
1. Job description

Job:
2 Pos-doc Positions for the Project CapTherPV-ERC-Consolidator Grant

Job/Fellowship Reference: ERC-2014-CoG-647596

Main research field: Engineering

Sub research field: Materials Engineering

Job summary:

One Pos-doc position is open to coordinate research activities in the field of plasmonic nanoparticles with up-conversion for thin film solar cells applications in the Framework of the CapTherPV Project, an ERC_Consolidator Grant. The project's PI is looking for a Pos-doc fellow with background in materials and devices for energy conversion with creativity, ability to work in group and passion for research. Second Pos-doc position is open for candidates with background in Capacitors or Batteries, its fabrication and characterization. The aim is to use Graphene supercapacitor to connect to solar and perform a stand along device.

Job description:

Job Description: (with detailed information Máx. 3000 Caracteres) Objectives and Methods (Enumerar os objetivos e os métodos) 1) The goal of this research work is the incorporation of NPs in thin films solar cells and study the device performances such as spectral response and energy conversion efficiency for the different NPs. The NPs films will be produced either by chemical (deep coating, spray, drop-casting) and physical process (thermal evaporation and sputtering. 2) The goal is to apply graphene based supercapacitors to store energy from thin film solar cells and reach a full stand along optoelectronic device with possibility to be scaled up and industrialized. Expected Results: During this project, it is expected the development of new concept of stand-alone solar cells, based on design of nanoparticles and its integration in thin films. The two Pos-doc will play a major role on these developments and will contribute in the supervision of PhD students. Besides that, it is expected to supervise MSc students, to give scientific contribution for new projects' application and oral presentation of the work in conferences and workshops. Number of positions available: 2 Research Fields: Preference for candidates with experience in the solar cells and energy conversion materials and devices or generic physics technology, nanotechnology or related fields and/or in batteries/supercapacitors production and characterization. Career Stage: (Early Stage Researcher ou Experienced Researcher) Preference for early stage researcher, but this is not an exclusion factor for the established or experienced researchers Research Profiles: A multidisciplinary background profile is a prime factor for the selection. Benefits: The base salary is 1600€ for an experimental period of six months that will be adjusted up to 2000€ according the skills demonstrated during this period. Besides that, the Pos-doc will be integrated in multidisciplinary team composed of qualified personnel with different backgrounds in chemistry, biotechnology, biomedical engineering, materials engineering, and electronics engineering. Therefore, the Pos-doc also benefits from this multidisciplinary to enlarge is knowledge and research horizons. Type of Contact: Status: (Full-Time) Working Hours (hours per week): 40 hours/week Company/Institute: The work is to be performed at Faculdade de Ciências e Tecnologica da Universidade NOVA de Lisboa and will be integrated at I3N/CENIMAT a materials research centre classified as exceptional by international evaluation panel. The grant contract is made by: NOVA.id.FCT – Associação para a Inovação e Desenvolvimento da FCT Campus de Caparica 2829-516 Caparica Portugal Closing Date: July 15, 2018 Comment/web site for additional job details For further information, please contact: Isabel Ferreira, Professor, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal ? Email: imf@fct.unl.pt ? Telf: (+351) Requirements 1. Required Education Level Degree: PhD Degree Field: Material Science, Physics Tehcnology, Nanotechnology, Electronics 2. Required Languages Language: English Language Level: Proficient 3. Required Research Experiences Experience in electronic, structural and morphologic characterization of solar cells, nanoparticles, semiconductor devices and also in its production processes: Chemical and/or physical deposition. Experience in the characterization of capacitors and/or batteries, and materials development. 4. Additional Requeriments Good inter-personnel relationship and creativity, passion for research, and motivation for working in group.

..... 5. Eligibility requirements
.....On the selection process will be given preference for Pos-Docs showing multidisciplinary work, with experience in the field of solar cells or semiconductor devices or synthesis and characterization of nanoparticles. Or with experience in batteries/ supercapacitors The pre-selected candidates will be interviewed before the final selection.

Vacant posts: 0

Type of contract: Information not available

Job country: Portugal

Job city: Caparica

Job company/institute: NOVA.id.FCT - Associação para a Inovação e Desenvolvimento da FCT

Application deadline: 15 Julho 2018
(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização
2. Organization contact data

Organization/institute: NOVA.ID.FCT - Associação para a Inovação e Desenvolvimento da FCT

Address:
Universidade Nova de Lisboa Campus de Caparica
Caparica - 2829-516
Portugal

Email: coord@novaidfct.pt

Website: http://www.novaid.fct.unl.pt/

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3. Habilitações académicas
3. Required education Level

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4. Línguas exigidas
4. Required languages

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5. Experiência exigida em investigação
5. Required research experience

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