

RESEARCH GRANT

PTDC/CTM-NAN/112428/2009

(M/F)

The Madeira Chemistry Research Centre (**CQM-Centro de Química da Madeira**) at the University of Madeira, Portugal, offers a grant for scientific research in the framework of the Project **DENDRIMAT – New materials for drug/gene delivery based on the self-assembly of dendrimer-chitosan-single stranded DNA (PTDC/CTM-NAN/112428/2009)** supported by the Portuguese Foundation for Science and Technology (FCT)/Portuguese Ministry of Science, Technology and Higher Education (MCTES, PIDDAC) in the following conditions:

Scientific Area: Chemistry/Biochemistry (Nanomaterials for Biomedical Applications)

Admission requirements: The candidates must have a Master degree in Chemistry, Biochemistry, Materials Science or in related fields. Preference will be given to candidates with experience in chemical synthesis and/or nucleic acid/drug delivery.

Work plan: The researcher will participate in the following tasks in the scope of the Project: (1) Synthesis of PAMAM dendrimer-chitosan-ssDNA conjugates and their physicochemical characterization; (2) Prediction of the organization, stability and physicochemical properties of the assemblies using suitable molecular computational methods; (3) Study of the self-assembling process and physicochemical characterization of the assemblies; (4) Study of the potential application of the materials as drug/gene delivery vectors for bone regeneration.

Applicable laws and regulations: Portuguese Law n. 40/2004, of 18 of August (Research Grant Holder Statute); FCT Regulations for Advanced Training and Qualification of Human Resources 2010.

Work place: The work will be developed at the Madeira Chemistry Research Centre under the supervision of Prof. Helena Tomás.

Grant length: The grant will last for six months and is expected to begin before 15 April 2011. The grant contract may be renewed up to a maximum of 36 months.

Value of monthly maintenance allowance: The scholarship amounts to € 980 by month, according to table values of the scholarships awarded directly by the FCT in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>).

Selection method: Selection will be made based on the *Curriculum Vitae* of the candidates.

Jury composition: Prof. Helena Tomás (President of the Jury), Prof. João Rodrigues, Prof. José Câmara, Prof. Pedro Pires (substitute member), Prof. José Mesquita (substitute member)

Results disclosure: The final evaluation results (ordered list based on the obtained classification) will be disclosed in the Madeira Chemistry Research Centre internet site (<http://cqm.uma.pt>). The selected candidate will be informed by e-mail.

Deadline and submission of applications: The call is open from 10 to 24 of March 2011. The candidatures must be done via e-mail to lenat@uma.pt, together with the following documents: *Curriculum Vitae*, *copy of academic certificates*.

CQM follows the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Commission Recommendation, Brussels, 11.3.2005, 2005/251/EC), is committed to the principle of equity in employment and welcomes applications from all qualified individuals.