



**3B's Research Group**  
**Biomaterials, Biodegradables and Biomimetics**  
**Associated Laboratory IBB – Institute for Biotechnology and Bioengineering**  
**University of Minho**

**Post Doctoral position**

The 3B's Research Group - Biomaterials, Biodegradables and Biomimetics at University of Minho ([www.3bs.uminho.pt](http://www.3bs.uminho.pt)), Portugal, a member of the Portuguese Associated Laboratory IBB- Institute for Biotechnology and Bioengineering, and the leader of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine (with Headquarters in AvePark, Taipas – Guimarães, Portugal), opens a call for a Post-Doctoral research grant under the European project Find and Bind, funded by the 7<sup>th</sup> Framework Program of the European Union. The grant holder will be part of a multinational research group with a strong background in development of materials for tissue engineering applications with focus on surface modification of biomaterials and characterization of biological responses by *in vitro* studies.

The grant will be attributed under the following conditions:

1. Time: The grant will be initially funded for 12 months with a possibility for an extension up to 4 years. The starting date will be in September, 2009. It is a full time research grant and all the conditions established by the Portuguese Foundation for Science and Technology will be applied (more information <http://www.fct.mces.pt>).
2. Education: PhD in Biophysics or Organic/Polymer Chemistry accomplished with previous experience in glycochemistry, conjugation and immobilization of glycans are mandatory. Experience in self-assembled monolayers, layer by layer technique is also required. Knowledge on surface analytical methods, such as XPS, contact angle measurements, ellipsometry, surface plasmon resonance, atomic force microscopy, etc. is beneficial. Applicants should have a very good knowledge of English language and excellent verbal and written communication skills in general.
3. Research activities: Conjugation of glycans with surface-active molecules; Obtaining nano-structured surfaces by self assembled monolayers, amphiphilic block copolymers, layer-by- layer technique; Physicochemical characterization of conjugates and surfaces; Studies on interactions of biomolecules on modified surfaces by ellipsometry, quartz microbalance, etc.; Writing project reports.
4. Scholarship value: According to the value of the research grants accepted by the Portuguese Foundation for Science and Technology (more information <http://www.fct.mces.pt>).
5. Documents: Certificates about academic degrees, English language, CV including photograph of applicant, list of presentations at conferences and published papers, a motivation statement, and reference letters from previous employments are mandatory and can be send by regular mail until 15.02.2010 to:

A/c Prof. Rui L. Reis  
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Alternatively, you can send all the required documents by e-mail: [berta.almeida@dep.uminho.pt](mailto:berta.almeida@dep.uminho.pt)