

Call reference number	(2022-17)
Call name	Post doctoral researcher in Electrochemical biosensors
Application Deadline	2022/07/31

Introduction and main description
<p>We are looking for a post doctorate level researcher in the area of electrochemical devices. The hired researcher will develop electrode materials and electrochemical cells for biosensing and spectroelectrochemistry, and will integrate them in a range of miniaturized devices and microsystems.</p> <p>The work will be carried out at BCMaterials and will enjoy collaboration with world leading research groups in the areas of spectroelectrochemistry, microfluidics, and biosensing. The starting date is as soon as possible, and for experience researcher competitive salary will be paid and are at par with other EU scientific establishments. The hired researcher will work in the micro- and nano-devices area but will interact with researchers from all other areas at BCMaterials.</p> <p>Work will also involve overseeing and training younger researchers, designing experimental programs, and assisting in the preparation of manuscripts and project proposals.</p>

Skills and Requirements
<p>The successful candidate must have demonstrated experience in some of the following areas:</p> <ul style="list-style-type: none"> * Electrochemical methods, particularly voltammetry and chronoamperometric methods. Although the position will mainly involve experimental work, understanding of the underlying theory and the ability to link theory and experiment to understand and design new systems, is critical. * Spectroelectrochemistry: Experience in the use of spectroscopic techniques (UV-Vis mainly) and image analysis methods in combination with electrochemical experimentation is also desirable since a significant part of the work will involve electrochromic and electrochemiluminescent systems. * Biosensor development: surface functionalization. The work will require the functionalization of surfaces with enzymes, and also possibly antibodies and peptides. A good understanding of surface chemistry and bioconjugation techniques is also required. * Miniaturization: Skills in the design and fabrication of electrodes and electrochemical cells, including flow systems, are highly desirable. Knowledge of printing techniques, microfabrication, and prototyping will be appreciated. * Data analysis and representation: Good command of conventional data analysis and visualization software packages is required. Knowledge of programming languages, such as python, is not a requirement but will be highly valued.

Work Program / Duties / Responsibilities

Write as much as needed. You can paste a chronogram too, if needed

Application Procedure

Apply by submitting a motivation letter and a CV (in English) using the "Contact" button at the corresponding offer, at the "Join Us" area on BCMaterials' portal (<https://www.bcmaterials.net/join-us>).
Your name and email address will be required for further contact too.

Other Relevant Information

Write as much as needed, relating evaluation process, dates of interest.