

**JOB DESCRIPTION**

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| **Job Title:** Postdoctoral Research Associate in Electrochemical Biosensors | **Present Grade:** 7 |
| **Department/College:** School of Engineering | |
| **Directly responsible to:** Dr Samet Şahin | |
| **Supervisory responsibility for:** Some supervision of postgraduate students | |
| **Other contacts** | |
| **Internal:** Colleagues of the Division, Faculty and University  **External:** Prof. Colin Dayan from Cardiff University, Consultant of the project  **Other:** Funder, key stakeholders, professional bodies, academic and research networks | |
| **Major Duties:**  The duties of the Senior Research Associate under the supervision of the grant holder at Lancaster (Dr Samet Şahin) for the development of a point-of-care biosensor for c-peptide assessment include:   1. To undertake research activities according to project objectives, including:    * To synthesise and characterise redox active nanomaterials for electrode modification    * To design an electrochemical biosensor for the point-of-care assessment of c-peptide using redox nanocomposite materials    * To perform optimisation and validation studies for the sensors developed    * To test the developed systems within Lancaster University and at other locations in the UK or abroad where required. 2. To undertake the day-to-day management of the project tasks, ensuring that key milestones are achieved on time. 3. To maintain the record, analysis and dissemination of the information gained throughout the project, including:    * To write articles for peer-reviewed journals in collaboration with their supervisor and colleagues in the research team.    * Assisting in the preparation of project reports.    * Manage communications related to the project.    * To present the developed work at national and international conferences and to funding bodies or exhibit work at other appropriate events. 4. To undertake training as appropriate, including mandatory training required by the University. Also, attending specific training identified in discussion with the project lead for the post-holder’s own professional development and/or of benefit to the project. 5. To bring to the attention of their supervisor and/or the industrial collaborators any areas of potential intellectual property value that may be deemed protectable under patent law, confidentiality or copyright law. 6. To make significant efforts to become up-to-speed with the literature associated with this topic of research and to remain current in this regard. | |