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Surface Chemistry Scientist

Company Description

Bioherent's mission is to create above state-of-the-art photonic biosensors for a variety of clinical applications, with the goal of simplifying and accelerating the diagnostics pathway at hospitals and other healthcare institutions.

Bioherent was born as a spin-off of the Universidad de Málaga (Spain), and its technological basis is the result of decades of research and development in photonics, chemistry, and clinical sciences. The company is moving fast to solve unmet clinical diagnostics challenges and joining now will provide you with the unmatched opportunity of applying advanced multidisciplinary technical skills *to improve people's health, and you will have a say on the way the product is designed, developed, and implemented where it is required.* All of it while working in a high-tech environment in one of the most sough-after cities in Europe: Málaga!

Overall, joining Bioherent is a unique opportunity that will help you nurture your experience and evolve in your professional career, while truly making an impact in society as the ultimate goal of the endeavor.

Job Description

The Surface Analysis Scientist at Bioherent is the core element responsible of surface characterization and optimization for biosensors developed by the company. In this role, you will be required to lead all aspects related to biosensor surface analysis.

Your responsibilities will include:

- Development and characterisation of surface chemistry protocols for different surface biofunctionalization process. Specially applied onto silicon nitride surfaces for biosensor.
- Establishment of technical protocols for the definition of reproducibility, efficacy, and quality of the biosensor chemical preparation.
- Selection of the optimal adequate analytical technics for surface characterization.
- Determination of analytical parameters such as coverage, reproducibility and surface stability over time.
- Surface aging and stabilisation studies establishment of the parameters to be considered to study.
- Optimization of biological and human sample preparation conditions for the detection of analytes in the biosensor, in coordination with the immunological expert.

Background and Skill

- Formation in Chemistry, Physics, Surface Science, Materials Science or similar field.
- Demonstrated thorough knowledge of surface functionalization procedures and appropriate synthetic techniques, specially applied for silicon nitride surfaces.
- Demonstrated experience in biosensor functionalization.
- Thorough understanding of the underlying chemical interactions of polymers, dendrimers and biomolecules.
- Experience working with complex (human serological) samples and their surface interactions.
- Characterization of biofunctionalized surfaces using convenient spectroscopic technique specially for biosensor applications.
- +3 years of professional experience in biosensor development in an industrial/biotech company environment.

Valuable Skills

- Doctorate in related areas.
- Deep knowledge on (bio)organic chemical reactions.
- Characterization of the photonic sensor functionalized surfaces.
- Experience working with photonic biosensors (e.g., interferometers, Surface.
- Plasmon Resonance (SPR), microcavity resonance sensing, etc.)
- Previous experience working in a highly regulated environment (medical IVD regulations ideal)
- Knowledge of immunoassay chemistries and in vitro diagnosis.
- Basic communication, teamwork and leadership skills to handle a small, qualified team of scientists.
- Ability to work in a fast-paced environment.

Contact

We are looking forward to your application, please send it to contact@bioherent.com.