## RESEARCHER: Innovative antifouling materials for maritime applications

Biotrend is recruiting a highly motivated researcher to be part of the development team within the EU-funded SEAFRONT project (http://seafront-project.eu). The selected candidate is expected to conduct research in the development of new nanomaterials with antifouling and antimicrobial properties. Marine biofouling, the unwanted colonization of marine organisms on surfaces immersed in seawater, has a huge economic and environmental impact in terms of maintenance requirements for marine structures, increased vessel fuel consumption, operating costs, greenhouse gas emissions and spread of non-indigenous species. The SEAFRONT project will aim to significantly advance the control of biofouling and reduce hydrodynamic drag by integrating multiple technology concepts such as surface structure, surface chemistry and bio-active/bio-based fouling control methodologies into one environmentally benign and drag-reducing solution for mobile and stationary maritime applications. In parallel, a combination of laboratory-based performance benchmarking and end-user field trials will be undertaken in order to develop an enhanced fundamental/mechanistic understanding of the coating-biofouling interaction, the impact of this on hydrodynamic drag and to inform technology development and down-selection of promising fouling control solutions. This project aims to facilitate a leap forward in reducing greenhouse gas emissions from marine transport and the conservation of the marine ecosystem by adopting a multidisciplinary and synergistic approach to fouling control. A background in nanomaterials and anti-fouling properties is preferential. The position is for a period of 6 months, eventually renewable. The candidate can start the position on July 15th, 2016.

**Scientific area:** Bionanotechnology

**Qualifications:** The candidate should have a Master's degree in Nanotechnology, Materials Science, Chemistry, Pharmacy, Biomedical engineering or similar.

**Research plan:** The researcher will be involved in the development, preparation and characterization of nanomaterials with antimicrobial/anti-fouling properties.

**Place of work**: The work will be performed at Biocant, Cantanhede. Guidance will be provided by Dra. Cristiana Paulo and Dr. Lino Ferreira.

**Terms of employment:** The fellowship will be for 6 month, eventually renewable, beginning in July 15th, 2016.

**Terms of salary**: The gross salary per year will be 22,000 Euros (includes social security).

**Evaluation**: The candidates will be evaluated according to their CV, experience in the field and interview.

**Publication of results**: The selected candidate will be notified by email.

**Application deadline:** The applications can be submitted from **June 28th until July 11th 2016**. Applications must be submitted through letter including *curriculum vitae*, copy of degree(s) and recommendation letters. Applications must be submitted through electronic mail to Dra. Cristiana Paulo. Email: cristiana@biotrend.biz