

**Position:**

1x PhD position funded for a period of 4 years

**Start date:**

October 1st 2018

**Location:**

Marine Biofouling Laboratory (<https://research.ncl.ac.uk/biofouling/>), Newcastle University, UK

**Supervisory Team:**

Prof. Tony Clare, Dr Nick Aldred, Dr Kevin Reynolds

**Project Details:**

This PhD is fully funded by the Defence Science and Technology Laboratory (Dstl) in collaboration with AkzoNobel/International Paint Ltd. and Royal Phillips. The project will develop UV-C LED technology for application to antifouling in niche areas of ships (coolant inlets etc.) that are particularly prone to fouling and corrosion. The research will focus on identifying, with industrial collaborators, the optimal illumination conditions to achieve fouling control, the most suitable embedding materials for the LEDs and the effects of irradiation on target and non-target fouling species. Laboratory and field experiments will include settlement, adhesion and behavioural assays with a variety of fouling species. Candidates may come from biological, materials or engineering backgrounds, but will be enthusiastic about engaging with all aspects of this multi-disciplinary project. Available to EU nationals only.

Informal enquiries to Tony Clare ([tony.clare@ncl.ac.uk](mailto:tony.clare@ncl.ac.uk)) or Nick Aldred ([nicholas.albred@ncl.ac.uk](mailto:nicholas.albred@ncl.ac.uk))

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**Lab websites:**

<https://research.ncl.ac.uk/anemonelab>

<https://research.ncl.ac.uk/biofouling/>

<http://www.enba4.eu/> European Network of Bioadhesion Expertise

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