

PhD Studentship/Marie Sklodowska-Curie ESR: The photonic applications of structural colour from natural and genetically engineered bacteria.

Fixed-term: The funds for this post are available for 3 years.

We invite applications for a Marie Sklodowska-Curie Early Stage Researcher (MSC-ESR) Fellowship to work with Dr Colin Ingham on the genetic modification of structurally coloured bacteria – understanding of gene networks, ecology and applications of this striking optical phenomenon within biotechnology.

The project will form part of an EC Marie Sklodowska-Curie Training Network (BEEP), which unites 9 beneficiaries and 8 partner organisations from both the academic and industrial sectors from 6 countries (United Kingdom, France, Italy, the Netherlands, Denmark, USA). Broadly, BEEP aims (i) to unravel the fundamental strategies of light management in macroalgae, corals with symbiotic microalgae and bacteria, as well as sea-slugs with sequestered chloroplasts, and (ii) to apply such knowledge for creating novel artificial and bionic photosynthetic systems. Although based in Utrecht, the successful candidate will participate in several outreach activities, and will have the opportunity to collaborate with different members of the network.

Research within the network encompasses a number of disciplines from optics, physical chemistry to the material and biological sciences. In addition, inter-sectorial collaboration is promoted through short- and long-term secondments between academic and non-academic participants.

More information about the network including other project opportunities can be found at:

<https://euraxess.ec.europa.eu/jobs/449817>

Applicants must satisfy the EC's eligibility requirements for MSC-ESR Fellowships and must not have resided in the NL for more than 12 months in the last three years. They should have (or expect to obtain) a good degree in biology, microbiology, biotechnology, molecular biology or another suitable area.

For preliminary information on the project at Hoekmine BV (www.hoekmine.com), please contact Colin Ingham at Hoekmine@gmail.com.

Subsequent formal applications should include a cover letter, CV, detailed academic transcripts and the contact details for at least two academic referees, and should be sent by email to Dr Silvia Vignolini (SVignoliniAdmin@ch.cam.ac.uk) and Prof. Luisa de Cola (decola@unistra.fr).

Shortlisted candidates will be invited to a recruitment workshop to be held in Cambridge/London, UK on 27-28 of January 2020.