

Cullen Fellow: Remote Sensing (PhD award)

Outline of Research

This student will work closely with the Marine Institute Scientific and Technical Officer on Remote Sensing to examine trends on ocean colour, sea surface height and large scale circulation patterns in all Irish waters. Using previously deployed and current space-borne satellites, the fellow will assemble a viable, quality assured, remotely sensed data set for Irish waters. The fellow will also examine the feasibility of using the Sentinel satellite sensors for routine observation of Irish waters. A particular interest is in resolving the flow patterns near the coast using altimetric data, in quantifying biomass around the Irish coast, particularly near aquaculture production sites and in developing satellite-based indicators for the Marine Strategy Framework Directive.

Specific Requirements

The fellow should have a background in mathematics, physics, oceanography or earth science with a strong numerate capability. Some programming and scripting experience would be advantageous in this fellowship.