

## **Cullen Fellow: Technologies for routine low-cost ocean observation (PhD award)**

### **Outline of Research**

PhD student: This student will work with the Oceanographic Services team in the Marine Institute to develop lower cost sensor systems for use in the coastal ocean. In particular the fellow will examine the extent to which low cost embedded computers can be used to control the acquisition and telemetry of oceanographic data from offshore structures such as ocean buoys, tide gauges and autonomous vehicles. The fellowship will encompass the design, build, field test and transition to operational use of the newly developed system. Strategies for long-term deployment including anti-fouling measures, power and data management will be key to the success of this fellowship.

### **Specific Requirements**

The fellow should have a background in electronic or mechanical engineering. Some knowledge of oceanography or earth science and a strong numerate capability would be advantageous, as would some programming and scripting experience.