

## Marine Institute Job Description

<b>Position</b>	<b>Scientific &amp; Technical Officer (STO) – Software Developer</b>
<b>Grade &amp; Contract</b>	<b>Contract of Indefinite Duration Scientific &amp; Technical Officer Grade (Engineer III grade)</b>
<b>Service Group</b>	<b>Ocean Climate and Information Services (OCIS)</b>
<b>Location</b>	<b>Marine Institute, Oranmore, Co. Galway, Ireland</b> (Noting that the Marine Institute has introduced a Blended Working Policy, which you may be able to apply for in due course in line with the Policy.)

### Who will you work with and what will the role involve?

The Software Developer will work in the Information Services and Development's Application Development team, developing and supporting software to assist Institute programmes across operational teams including Fisheries Ecosystems Advisory Science, Marine Environment and Food Safety, and Oceanography and Information Services. The Software Developer will develop, maintain and support software solutions with a focus on data processes including scientific data processing and analysis, and information delivery to a range of stakeholders.

This role will involve working closely with groups across the Institute using a highly collaborative approach for software development. The ideal candidate will be a strong communicator and will promote ICT-related technology, processes and innovation to both internal and external audiences.

The role will involve close co-operation with the Information Services & Development teams, with operational teams and with cross-functional groups to ensure software development and support activities integrate well with the Institute's operational ICT infrastructure, standards and processes, are well managed and are aligned with the operational and strategic goals of the Institute.

### What Will You Be Doing Every Day?

#### Principal Tasks:

- Delivery of new software and related updates to support Marine Institute services. This will include the use of the Marine Institute Software Development lifecycle and relevant standards and guidelines for software development and systems integration projects.
- Support and Maintenance of Marine Institute software systems to ensure their fitness for purpose and to cater for evolving technology and functional requirements.
- Excellent customer focus through excellence to ensure solutions meet quality and functionality goals, that are responsively supported.
- Support for technical and process innovation through the adoption of relevant and well managed software and processes across the Institute.
- Promotion of software development process improvements including technical skills and support for continuous technical development of team members.
- Provide guidance and advice to ensure that Institute software capability is coordinated and fit-for-purpose, including contributing software expertise to 3rd party software integration.
- Any other duties relevant to the role and grade, as required from time to time.

## What do You Need to Have Done to Apply for This role? (Education, Professional or Technical Qualifications, Knowledge, Skills, Aptitudes, Experience and Training)

### Essential / Important:

- A degree in Computer Science or a relevant degree.
- Demonstrated experience of using some of the following technologies: .Net programming, C# and ASP.Net, MVC, HTML5, JavaScript, REST web services, source code control systems, enterprise databases e.g. MS SQL Server or alternative.
- Experience or knowledge of software development processes such as Agile (Scrum, Kanban, etc.).
- Demonstrated experience of developing data visualisations and / or other analytical capabilities.
- Demonstrated experience of working as part of a team on a collaborative basis.
- A strong ability to use initiative.
- Excellent time management including the ability to work unsupervised.
- The ability to communicate effectively both in writing and verbally at all levels, and with other teams and organisations.

### Ideally Nice to Have / Desirable:

- Some software development-related work experience would be beneficial.
- A post-graduate qualification in Computer Science or other relevant area.
- An understanding of structured software development tools and processes, with some knowledge of Continuous Deployment and Automated Testing tools and processes.
- Some experience in developing technical documentation, particular in a structured process-focused or technical environment.
- Some experience with customer support and problem management.
- Some exposure to working with scientific or environmental data.
- A broad understanding of Information Technology e.g. cloud, mobile, IoT.
- Some experience of map-based applications.

### What else do you need to know? (Special personal attributes required for the role)

- Ability to work in a team environment to achieve common goals.
- Solutions-oriented with good initiative and problem-solving ability.
- An ability to work in an organised manner and progress work independently.
- Good interpersonal skills, with ability to positively interact with a wide range of personality types and at different organisational levels.
- A desire to innovate.
- Ability to effectively communicate results of teamwork in written and audio-visual formats.
- An interest in travel for national or international project meetings.
- A passion for the marine sector.

### Description of Service Group: Ocean Climate and Information Services

The mission of OCIS is “To provide scientific, operational and analytical support and services to strategic RTDI and statutory monitoring programmes (at national and international level) to promote

and support the sustainable development of Ireland's marine resources

Ocean Climate and Information Services incorporates:

- Information Services & Development
- Advanced Mapping Services
- Research Vessel Operations
- Oceanographic and Climate Services
- Marine Research Infrastructures

### **Information Services & Development (IS&D)**

Information Services & Development (IS&D) is responsible for the provision of information and communications technology and the central co-ordination of data activities. To do this IS&D is made up of four teams:

- **Application Development:** the team manages software development and systems integration services in support of Institute operational and research activities, including for sensor data services, labs information systems, and online services. In particular, the team focuses on supporting operational activity where off-the shelf solutions are not available, and facilitates integration with other Institute systems. The team also carries out an advisory role with regard to the deployment and integration of 3rd party software and related services.
- **Data Management:** the team works with groups throughout the organisation to promote best practice in data process and technology. This includes providing guidance and support to promote best-practice management of the Institute's scientific data assets, storing data in central databases, facilitating access to data through catalogues and a variety of data services. The team is also focused on development of connectivity with national and international data networks and also engaging with research programmes nationally and internationally.
- **IT Operations:** the team develops and operates the Institute's ICT infrastructure to ensure it operates in a reliable and efficient manner and with cyber-resilience as a corner-stone, in addition to enabling the development of new operational and advanced research capabilities.
- **SLA Technical Data Services:** the team provides technical data and information service support to specific marine environmental programmes such as MSP and MSFD under the SLA with DHLGH.

### **Who Will You Report to / Who will Manage and Support You?:**

The successful candidate will be based at Marine Institute Oranmore and will report to the Team Leader for Application Development and other IS&D managers as appropriate.

### **What we offer**

We value our staff, and we value their contribution to the work of the Marine Institute. In return for this, we provide a series of benefits that promote a healthy work-life balance and which we hope will help them to develop professionally. These include Personal and Career Development, Work/Life Balance policies, Employee Assistance Programme, Bike to Work Scheme, Staff Medicals and Annual flu vaccination.

### **Contacts:**

#### **Within the Marine Institute**

The Software Developer will work within the Information Services & Development Section primarily within the Application Development Team working through the Application Development Manager. Other contacts include the IS&D Section Manager, IS&D Team Leaders, the Director of OCIS and wider OCIS team, staff across the organisation and external contacts in partner and client

organisations.

### **Training**

A full range of training will be provided as required, on the job and through appropriate courses. Training needs will be identified through the MI Performance Management Development System (PMDS).

### **Salary:**

Remuneration is in accordance with the Public Sector, Department of Finance approved Salary Scale for the Scientific & Technical Officer (Engineer III grade) with a salary of €37,583-€76,519 per annum pro-rated with time worked. You will commence on the first point of the scale €37,583 and become a member of the Single Public Service Pension Scheme unless you are currently or have worked in the Public Sector in the past 6 months and are a member of another Public Sector Scheme.

### **Annual Leave:**

Annual leave entitlement for a Scientific & Technical Officer is 25 working days per annum pro-rated to reflect time worked. Annual leave entitlements are exclusive of Public Holidays. All leave must be approved in advance in line with Marine Institute leave policies and using time and leave management system in place, by your manager or their authorised representative.

### **Duration of Contract:**

This is a Contract of Indefinite Duration. The successful candidate will be on probation for the first six months of this contract.

## **What is the Marine Institute?**

The Marine Institute is a non-commercial semi-state body, which was formally established by statute (Marine Institute Act, 1991) in October 1992.

<http://mispint:8080/mis/Human%20Resources/StaffInformation/Documents/Full%20Marine%20Institute%20Act%201991.pdf>

Under the Act, the Marine Institute was given the responsibility:

*“to undertake, to co-ordinate, to promote and to assist in marine research and development and to provide such services related to marine research and development, that in the opinion of the Institute will promote economic development and create employment and protect the marine environment”.*

The Marine Institute is the national agency responsible for marine research, technology, development and innovation (RTDI). The Marine Institute seeks to assess and realise the economic potential of Ireland’s 220-million-acre marine resource; promote the sustainable development of marine industry through strategic funding programmes and scientific services; and safeguard the marine environment through research and environmental monitoring. The Institute works in conjunction with the Department of Agriculture, Food and Marine (DAFM) and a network of other Government Departments, semi-state agencies, national and international marine partners.

***Our vision - The Marine Institute, as a global leader in ocean knowledge, empowering Ireland and its people to safeguard and harness ocean wealth.***

***Our Mission - The Marine Institute, provides government, public agencies and the maritime industry with a range of scientific, advisory and economic development services that inform policy-making, regulation and the sustainable management and growth of Ireland’s marine resources.***

***The Institute undertakes, coordinates and promotes marine research and development, which is essential to achieving a sustainable ocean economy, protecting ecosystems and inspiring a shared understanding of the ocean.***

In order to achieve this vision, the MI have six service areas; (1) Ocean, Climate and Information Services, (2) Marine Environment & Food Safety Services, (3) Fisheries Ecosystems Advisory Services, (4) Irish Maritime Development Office, (5) Policy, Innovation and Research Services and (6) Corporate Services.

The Marine Institute 5 Year Strategic Plan (2023 to 2027) is available [here](#)

#### How to Apply:

A C.V. and letter of application, summarising experience and skill set applicable to the position should be emailed to [recruitment@marine.ie](mailto:recruitment@marine.ie) or posted to Human Resources at the Marine Institute, Rinville, Oranmore, Galway. All correspondence for this post should quote reference **OCIS/STO-SD/SEP24**

All applications for this post should be received by the Marine Institute in advance of **12 noon, 1<sup>st</sup> of October 2024**. Please note that late applications cannot be accepted.

**Use of Data** - all personal data and the information submitted for this application will be used solely for the purpose of this campaign, after which it will be deleted in line with our General Data Protection Regulation Policy and data retention schedule. All information will be treated with the strictest confidence and accessed only by those involved directly in the campaign.

**The Marine Institute is an organisation that champions Diversity, Inclusion & Equality for all. We encourage and welcome applications from anyone interested in this role.**

**Please do advise if there are any special accommodations required for the recruitment process. We are here to help you access opportunities with us.**