



**Primary Location:** Italy-La Spezia

**NATO Body:** Centre for Maritime Research and Experimentation (CMRE)

**Schedule:** Full-time

**Salary (Pay Basis):** 1,500.00Euro (EUR) Monthly

**Grade:** INTERN

### **CMRE Young Scientist Internship Programme**

**Contractual Arrangement:** Internship

**Contract Duration:** 6 months

**Location:** La Spezia (Italy)

**Organization:** Centre for Maritime Research and Experimentation (CMRE) part of Science & Technology Organization of NATO

**Schedule:** Full-time

#### **INTRODUCTION**

Centre for Maritime and Research Experimentation (CMRE), is looking for brilliant and qualified candidates to join its team in one of the following disciplines:

- Physical Oceanography and Environmental acoustics
- Engineering (environmental, information, electronic)
- Applied mathematics
- Computer Sciences

**CMRE is happy to welcome you on board, send your application!**

#### **OBJECTIVES OF THE PROGRAMME**

CMRE is an established, world-class scientific research and experimentation centre that organizes and conducts scientific research and technology development, centred on the maritime domain, delivering innovative and field tested Science & Technology (S&T) solutions to address defence and security needs of the Alliance.

The Internship will take place within the Research Division (RD), which is responsible for identifying, developing and delivering Science & Technology (S&T) solutions in the maritime domain.

The Division leads the development of CMRE's scientific strategy and through its capability in ocean sensing, numerical modelling, big data analytics, artificial intelligence and autonomy, delivers the Centre's S&T goals while maintaining CMRE's reputation within the scientific community.

The Research Division is comprised of the four following sections:

- Antisubmarine Warfare (ASW)
- Mine Countermeasures (MCM)
- Data and Environmental Knowledge and Operational Effectiveness (D-EKOE)
- Maritime Unmanned Systems Engineering (MUSE)

The CMRE Internship Programme has four objectives:

- To contribute at creating a more diverse workforce of young scientists in order to provide the CMRE with a more diverse pool of potential future job applicants;
- To provide young scientists with an opportunity to learn from CMRE and NATO and get a thorough understanding and balanced view of the CMRE and NATO;
- To provide CMRE with the latest scientific knowledge that the intern can apply through practical work assignments;
- To expand the understanding of CMRE in Alliance countries, universities and other institutions by having young scientists return to their countries and/or universities or other institutions after completing the internship and share their experience.

### **DESCRIPTION OF DUTIES**

Under the supervision of a Programme Manager or Project Leader, Interns will be assigned to a project based on agreed terms of reference and in line with their skills set. These terms of references typically include some of the following responsibilities:

- Participate and/or conduct an adequate research projects
- Undertake data collection on specific subject area
- Design experiments, analyse results and formulate hypotheses
- Process, analyse and organize data and information
- Participate in the development and drafting of research papers
- Assist in workshops, meeting and conferences at CMRE

### **REQUIRED QUALIFICATIONS**

In order to apply for an internship at NATO, all criteria outlined below on the application date should fulfilled:

- Age: being over 21 years old
- Nationality: being citizen of a NATO Member State
- Language: Proficiency in English
- Educational status: The program is open to current students, having completed two years in their Bachelor's Degree, or graduates within the past 12 months
- Educational fields: University level studies or equivalent in one the fields of Science, Technology, Engineering and Mathematics
- IT Skills: Knowledge of commonly used computer programmes (such as Word, Excel, PowerPoint) and technical calculus software (e.g. Python or MATLAB) is essential
- Copy of your on-going studies certification and/or copy of your University Degree must be submitted during the application process

### **DESIRABLE QUALIFICATIONS**

- Knowledge of programming languages (e.g. FORTRAN);
- Knowledge or interest in the following methods:
  - ✓ Coupled and uncoupled numerical models
  - ✓ Artificial Intelligence and Machine learning
  - ✓ Advanced Data fusion methodologies
  - ✓ Applied robotics and autonomous navigation
  - ✓ Big Data analytics
  - ✓ Modelling and Simulations

- ✓Signal processing
- ✓Underwater communication

## **COMPETENCIES**

### **Analysing and Critical thinking**

Gaining insight into cause and effect relations by assessing the available information in a critical and rational matter.

### **Planning and Time management**

Structuring and prioritizing different tasks and completing them efficiently within the given time-frame.

### **Engagement and Co-operation**

Supporting the team spirit by sharing values and ideas and making use of collaboration skills to achieve common goals

### **Self-Development**

Actively planning with your manager your tasks in accordance with capabilities, personal interests and ambitions, in order to achieve assigned objectives and to acquire new skills.

### **Adaptability**

Receiving feedback in a constructive way, while keeping the objectives in mind. Adopting a flexible attitude towards possible changes in work or tasks assignments

## **ADDITIONAL INFORMATION**

- Please note that internships at CMRE are very competitive and due to the amount of requests, only suitable candidates will be contacted for the next recruitment phase.
- After completing the internship assignment, interns may be considered to further employment, according to NATO CMRE policies.
- Interns are paid a monthly stipend of € 1.500 subject to taxation.
- Following confirmation of the internship and prior to departure of the intern, the CMRE Travel Office will book the most economic rail/air travel to/from CMRE. Mileage to/from CMRE will be paid consistent with Council-approved rates, up to the ceiling of the most economic travel by rail/air.
- Participation in an internship is subject to receipt of NATO security clearance from the intern's national authorities. Interns may join CMRE only after the necessary clearance is obtained which might take an average of six months.