

## EMSO ERIC

### Vacancy details

#### **Director, Information Technology and Data Services** at the EMSO ERIC (European Multidisciplinary Seafloor and Water-Column Observatory European Research Infrastructure Consortium) Central Management Office (CMO)

The European Multidisciplinary Seafloor and water-column Observatory (EMSO) is a Research Infrastructure at fixed-point monitoring nodes connecting European marine research facilities: from the Arctic, through the North Atlantic, to the Mediterranean and the Black Sea. It currently comprises 11 (eleven) open ocean facilities and 4 (four) shallow water test sites (see [www.emso.eu](http://www.emso.eu) for details).

EMSO is a new European Institution set up as an ERIC (European Research Infrastructure Consortium) by decision of the European Commission (September 29, 2016). Its Members are currently States from the European Union although it is open to external members.

Application deadline: January 14, 2019 at midnight

Expected starting date: February 1<sup>st</sup> 2019

Type of contract: fixed-term professional consulting contract

Duration: 12 months

Required effort: 8 months full time equivalent (FTE)

Max. Gross remuneration: 100,000 Euro inclusive of all contributions required by Italian tax regulations. Any additional transaction costs will be charged to the consultant except all authorized travel expenses and travel subsistence cost to be reimbursed by EMSO ERIC.

Employer: EMSO ERIC. Location: EMSO ERIC Headquarters in Rome, Italy

Responsible to: EMSO ERIC Director General and EMSO ERIC Central Management Office.

## General Summary:

EMSO ERIC is searching a recognized expert in cyber-infrastructure, scalable computing, and distributed computer systems with demonstrated excellence in architecting, constructing, and operating large-scale production and research cyber-infrastructure computing systems and data facilities. The successful candidate will be expected to maintain and lead an outstanding, interdisciplinary, competitive, and innovative program of international caliber. He/she will routinely interact with people of diverse backgrounds and nationalities from within and outside the EMSO ERIC organization, so excellent interpersonal and communication skills are a must.

- Lead, coordinate and execute the transition of the EMSO Data Management Platform (DMP) to operation, including the integration of computing and storage systems.
- Define and articulate the overall technology strategy while managing the day-to-day operations, which includes developing plans and policies.
- Ensure the stability and operational excellence for all systems of the DMP and other cyber-infrastructure components.
- Lead an interdisciplinary team for the operation and maintenance of the DMP and other cyber-infrastructure components.
- Demonstrate leadership in forming and maintaining productive working relationships within the EMSO ERIC stakeholders.
- Understand the requirements of the EMSO ERIC community and support their system's needs and execute plans using good engineering practices.
- Interface with EMSO ERIC stakeholders to identify and prototype technologies and management practices beneficial to the EMSO ERIC community.
- Analyze applicable trends in the industry and explore new approaches to solve technical problems, including technological, engineering and standardization issues related to the DMP and other cyber-infrastructure components.
- Research new approaches for distributed computing systems and scientific data delivery-systems, including supervising and reviewing technological, engineering and standardization issues of the Infrastructure.
- Implement interoperability and propose new mature technologies or new operating methods for the DMP in an harmonized and coordinated Research Infrastructure framework according to FAIR principles.
- Establish an appropriate workflow for taking stewardship of the EMSO ERIC data life-cycle and ensure long-term preservation and redundancy.
- Attend meetings coordinating and reporting on the DMP and other cyber-infrastructure components status and operation, and work closely with the Director General on monitoring and evaluating the cyber-infrastructure processes, risk analysis, quality control, problem-solving and metric improvements.
- Represent EMSO ERIC at seminars, conferences and other events.



- Report achievements in scientific and technical publications.

Applications for the position are encouraged from citizens of the European Union and Associated Countries.

Required qualifications & competencies:

- education: Ph.D. in distributed computing systems
- at least 8 years of experience beyond the PhD with a clear research agenda, record of publication and funding related to research cyber-infrastructure, scalable discovery analytics, distributed computing systems, and Big Data.
- strong technical knowledge and experience working with Grid Computing, Cloud Computing and Big Data systems (e.g., Apache Hadoop/Spark).
- experience with relevant grant programs of funding agencies, foundations and/or high-tech companies.
- successful project planning and management experience in large (i.e., multi-million) programs.
- supervisory experience of interdisciplinary teams of senior personnel (including software engineers and system administrators/DevOps) and good interpersonal communication skills.
- experience in interdisciplinary international projects involving ocean sciences, broader geosciences and other scientific domains.
- excellent written and spoken of two European languages including English
- editorial level written English with extensive relevant writing experience and professional public speaking skills
- ability to work under pressure and handle multiple problems simultaneously
- ability to coordinate the efforts of teams internationally

Desirable attributes:

- experience in the European Research Area and in the international arena;
- knowledge of international marine research institutions, organizations, infrastructures and other relevant bodies.



Working Conditions:

- The main place of work will be the EMSO ERIC Headquarters in Rome, Italy.
- Duties will entail travel within and outside Europe.
- A significant number of trips will be required, and work even online during some weekends and holidays

Selection Procedure:

- Applications should be addressed to the EMSO ERIC Director General and submitted by email to [recruitment@emso-eu.org](mailto:recruitment@emso-eu.org), including a single pdf file including CV, cover letter
- The deadline for submission is January 14, 2019 at midnight (Rome local time)
- Any specific enquiries about this job posting should be sent to [recruitment@emso-eu.org](mailto:recruitment@emso-eu.org) specifying the term of the sought position.

