



Call launch 20th July 2010

Introduction

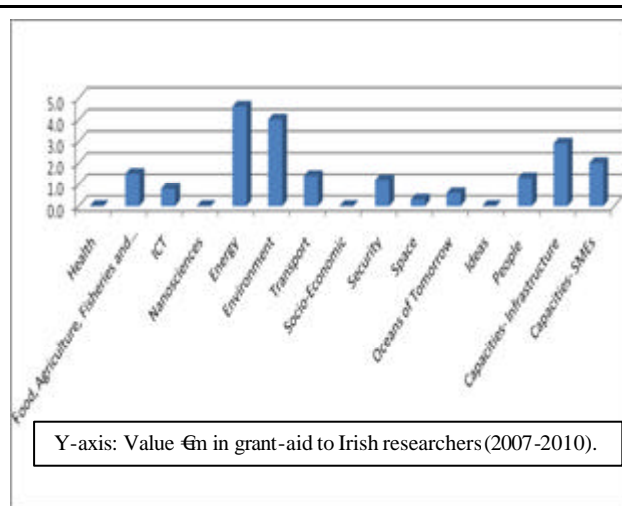
On the 20th July, the European Union launched its latest round of financial support for collaborative research and innovation announcing nearly €6.4 billion in new investment under its 7th Framework Research Programme (2007-2013). This new call offers a range of competitive opportunities to support collaborative pan-European research across a number of sectors including health, food, ICT, energy environment, maritime transport, etc., as well as support for regional and specialist research infrastructures and support for SMEs.



A summary of opportunities relevant to the marine sector and direction to further sources of information is available below.

In September 2010, the Commission propose to launch a Directory of Marine Research Projects supported under the 7th Framework Programme which will describe the range of topics funded and the number of collaborative marine projects supported under each FP7 Theme and Priority Area.

FP7 FIND A CALL: <http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage&rs>



“Marine science and technology is a priority cross-cutting theme in FP7”

This means that all FP7 Thematic Programmes should be capable of funding marine projects.

To-date (2007-2010) Irish marine researchers have participated successfully in 56 collaborative projects (winning over €23 million in grant-aid) in all thematic areas (see opposite) with the exception of Theme 1 (Health), Theme 4 (Nano-Sciences) and Theme 8 (SSH) and in the Ideas Programme.

Successful Irish participants include: 5 Public Sector Research Centres (15% of grant-aid); 7 Third Level Institutions (36% of grant-aid); 21 SMEs (39% of grant-aid) and 4 Associations (9% of grant-aid).

Some Marine Funding Opportunities in the 2011 Work Programmes

(list below not exhaustive)

CO-OPERATION PROGRAMME

2nd Oceans of Tomorrow Call (2011) – deadline: 18th January 2011.

1. Multi-use offshore platforms. Budget: €14 million (up to 3 projects).
2. Marine microbial diversity – new insights into marine ecosystem functioning and its biotechnological potential. Budget €9 million (one project).
3. Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of better governance. Budget: €13 million (one project).
4. Knowledge-base and tools for regional networks of MPAs, integrated management activities together with assessment of wind energy potential in the Mediterranean and the Black Sea. Budget: €9 million (one project).

Irish marine researchers (UCD, ESRI) are participating in two of the four 1st round Ocean of Tomorrow 2010 projects.

1. **Health (deadline: 29th October (two-stage); 19th Nov. (Single-stage)).**
 - No marine-related health projects have been identified to-date – your chance for a first!
2. **Food, Agriculture, Fisheries & Biotechnology (deadline: 25th January 2011):**
 - Beyond Maximum Sustainable Yield (MSY): defining management targets and their consequences



- Socio-economic effects of the main management principles of the new Common Fishery Policy (CFP): impact of new policy framework and opportunities for the fishing sector to develop self- and co-management.
 - Strengthening the impact of fisheries related research through dissemination, communication and technology transfer.
 - Aquaculture feeds and fish nutrition: paving the way to the development of efficient and tailored sustainable feeds for European farmed fish.
 - Role of aquaculture in improving food security and eradicating poverty worldwide.
 - Development of field tests for rapid screening of pathologies as well as simple laboratories tests.
 - Marine biotechnology ERA-NET preparatory action.
 - Increasing the accessibility, usability and predictive capacities of bioinformatics tools for biotechnology applications.
 - Supporting the development of Bioinformatics Infrastructures for the effective exploitation of genomic data: Beyond health applications.
 - Generic Food Projects e.g. Development of functional foods and ingredients.
- 3. Information and Communications Technologies (deadline: Various dates from December 2010):**
- While there is no specific mention of marine or oceans etc., a number of topics do have scope for marine-related applications. Thirteen marine ICT projects have been funded to-date, two with Irish participation.
- 4. NanoSciences, Materials & New Production Technologies (deadline: Various dates from November 2010):**
- No marine-related nanosciences / materials projects have been identified to-date? –another chance for a first!
- 5. Energy (deadline: Energy-1 (16th November 2010); Energy-2 (7th April 2011):**
- Development of design tools for offshore wind farm clusters;
 - Understanding the long-term fate of geologically stored CO₂;
 - Innovative tools for the future coordination and stable operation of the pan-European electricity transmission system;
 - Innovative strategies and tools for the reliability assessment of pan-European electricity transmission system;
 - Pilot International Researcher Exchange in the field of energy research (USA/Japan);
 - Demonstration of innovative offshore wind electricity generation structure (Energy -2: 7th April 2011).
- 6. Environment including Climate Change (deadline: 16th November 2010):**
- Improvement of the representation of critical climate processes in climate and Earth system models.
 - Vulnerability of Arctic permafrost to climate change and implications for global GHG emissions and future climate.
 - Impacts of a global temperature increase of 2°C from pre-industrial level, in Europe and vulnerable regions of the world.
 - Lagoons in the context of climate change.
 - Behaviour of ecosystems, thresholds and tipping points.
 - Improved comprehension of the utility of the concepts of value of biodiversity.
- Environmental Technologies:**
- Eco-Innovation: bottom up topics (including marine technologies and monitoring systems).
- Earth & Ocean Observation:**
- Integration and optimisation of information for building a Global Carbon Observing System.
 - Inter-operable integration of shared Earth Observations in the global context.
 - Assessing the ecosystem status, including fisheries, within the Mediterranean marine coastal areas of North African countries.
- 7. Transport Programme (deadline: 2nd December 2010):**
- Green retrofitting through optimisation of hull-propulsion interaction
 - Retrofitting of existing ships with green technologies
 - Towards zero emission marine engines.
 - Efficient interfaces between transport modes
 - Strengthening the European maritime-transport sector competitiveness.
 - Exploring and fostering international collaboration in the waterborne transport sector.
- 8. Socio-Economic Sciences & Humanities (deadline: 2nd February 2011):**



Marine Science & Technology Opportunities in FP7 (2007 - 2013)



- The SSH Programme is fairly generic in structure and would facilitate a marine topic. It is understood that at least one marine SSH project (maritime trade in the middle ages) has been funded to-date.

9. Security Programme (deadline: 2nd December 2010):

- At least one marine related security project with Irish participation has been funded to-date.

10. Space Programme (deadline: 25th November 2010):

Activity: 9.1 Space-based applications at the service of European Society:

- Prototype operational continuity of GMES services in the Marine Area;
- R&D to enhance future GMES applications in the Marine and Atmosphere Areas.

HORIZONTAL PROGRAMME

IDEAS Programme

Topics are generic / bottom-up, not pre-defined. No marine projects with Irish participation to-date!

Sub-Programme

- Starting Grant Physical Sciences & Engineering
- Starting Grant Life Sciences
- Starting Grant Social Sciences & Humanities
- Advanced Grant Physical Sciences & Engineering
- Advanced Grant Life Sciences
- Advanced Grant Social Sciences & Humanities

Deadlines

14th October 2010
9th November 2010
24th November 2010
9th February 2011
10th March 2011
6th April 2011

PEOPLE (Marie Curie) Programme

- Topics are generic / bottom-up, not defined: to-date, three marine ITN networks with Irish participation have been funded to-date.

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|---|--------------------------------|
| • Marie Curie Intra-European Fellowships (IEF) | 17 th August 2010. |
| • Marie Curie International Incoming Fellowships (IIF) | 17 th August 2010. |
| • Marie Curie International Outgoing Fellowships | 17 th August 2010. |
| • Marie Curie Reintegration Grants | 7 th September 2010 |
| • Marie Curie Industry -Academia Partnerships and Pathways (IAPP) | 7 th December 2010. |
| • Marie Curie Initial Training Networks 2011 (ITN) | 26 th January 2011 |

CAPACITIES Programme

Infrastructures: (deadline: 25th November 2010):-

- Research Infrastructures for Carbon Cycle Observations.
- Integrated observatories and centres for marine and freshwater biodiversity and for long-term ecosystem research.
- Multidisciplinary Marine Data Centres, with emphasis on the Mediterranean and Black Sea.

Regions of Knowledge (deadline: 9th December 2010):

- Transnational cooperation between regional research-driven clusters.

Science & Society (deadline: 20th January 2011)

- Mobilization and Mutual Learning (MML) Call - Specific Challenge 3: Marine resources, inland activities and sustainable development.

Research for the benefit of SMEs (deadline: 8th December 2010):

- Topics are generic / bottom-up, not pre-defined. To-date, 5 marine projects with Irish participation have been funded.

A summary of Irish participation in FP7 marine projects (2007-2009) is available in: Marine Institute (2010). *Irish participation in EU FP7 (2007-2013) funded competitive marine research projects: 2009 Supplement*. (January 2010). 35pp. Also available as a pdf download from <http://www.marine.ie/home/publicationsdata/publications/EU+Framework+Research+Programmes.htm>



Marine Science & Technology Opportunities in FP7 (2007 - 2013)



For further information on FP7 calls :

National FP7 Support Office: www.fp7ireland.com

Call Calendar: <http://www.fp7ireland.com/Page.aspx?SD=1278>

For information on specific Calls/Priority Topics contact the relevant National Contact:
www.fp7ireland.com/contacts.aspx

For information on FP7 marine projects funded to-date (all Member States):

<http://www.mapinfobase.eurocean.org/>

HEALTH WARNING:

- Closing dates given are indicative and should be doubled checked with the Official Call Document.