



Free MARIN basin time for MKB concept testing

To stimulate Dutch maritime innovation, MARIN invites Small & Medium Enterprises (MKB) to test their new ideas and concepts for free. MARIN offers the same opportunity again for 2019. The initiative aims at stimulating innovation in the Dutch maritime sector and lowering the threshold for Small & Medium Enterprises to test their new ideas and concepts.

MARIN offers MKB clients a free basin slot of two weeks (eighty basin hours including a qualified test engineer) and a one-day workshop with an experienced MARIN Project Manager and Project Engineer. The free basin slots allow feasibility checks and improvements in an early phase of a new concept development. They are not meant as final or formal tests of a design, or for optimisation of existing designs. This total offer represents a value of roughly 40,000 Euros per client and is a MARIN offer to its clients (not a governmental subsidy). Clients can bring in their own models and can perform and analyse the tests themselves. However, MARIN can also assist in model making, instrumentation, analysis and reporting at regular rates. Experience in previous years showed that clients typically spent 20,000-30,000 Euros in addition to the free basin time offered by MARIN.

Application

Fill in the application form at www.marin.nl/mkb and give additional information as requested:

- Project name
- Contact details
- Qualification as Dutch MKB company
- Short description of the concept test, the objective and the approach of the proposed concept test, including a picture of the concept
- Relevance to MKB, innovation or research
- Required resources. Indicate expected resources of MARIN (model(s), instrumentation, material, man hours, data analysis, project report, etc) and indicate (max) available budget.
- The 2019 call closes December 31, 2018.

Free basin slot approach

The free basin slots are organised as follows:

- There is a call for 2019 for five projects of two weeks each. The 2019 call closes on **December 31, 2018**.
- Companies can apply by filling in the Application Form at www.marin.nl/mkb. MARIN is willing to sign normal Non Disclosure Agreements (NDAs), if needed, prior to application.
- MARIN will consider all applications and will select a maximum of five projects. Selection is made by MARIN and is based on several aspects, such as innovation, feasibility and added value. The call is open for all innovative ideas, but Dutch MKB companies have preference. There will be no discussion with clients about projects that were not selected, the selection is MARIN's privilege.
- A one-day workshop at MARIN will be organised for each selected project shortly after selection. The client, a MARIN Project Manager and a MARIN Project Engineer will discuss the details of the concept, the model(s), the set-up and the instrumentation. The one-day workshop will be free of charge.

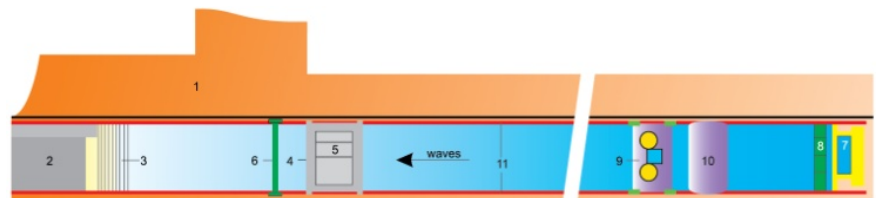


- A two-week slot (80 hours, working in single shifts of 8 hours) will be made available in the MARIN Concept Basin (220m x 4m x 4m). On special request MARIN might also allow concept tests in the Shallow Water Basin (220 m x 15.8 m, 0-1.1 m deep). The basin, the electricity and one qualified MARIN Test Engineer will be available free of charge.
- It should be noted that the two-week slot includes all preparations and set-up time and is not just for testing time.
- The clients can bring their own model(s), staff and/or instrumentation for the concept test, but it is also possible to ask MARIN for (some of) these services. All additional costs for project management/engineering, model preparations, set-up, instrumentation, data analysis, reporting and/or consultancy will be charged at regular rates. The requirements for the project/client will be agreed upon at the initial workshop and will be regarded as a regular MARIN quotation to the client. The client can ask MARIN for cost estimates for additional services when applying for a free basin slot. It is wise to assume a 20,000-30,000 Euros budget for additional support for the free MKB projects.
- The tests involve feasibility checks and allow improvements in an early phase of a concept development. The (limited) size of the basin, possibly small scale of the model and probably simplified test procedures will not always allow for final conclusions. Therefore, it is not allowed to use measurement results in statements ('Model tests at MARIN have shown that a ...% improvement can be achieved...' or similar) without written permission from MARIN. Reference to measurement values can only be made when a formal MARIN (data) report is provided (to be requested at the application form and/or the workshop). MARIN can provide such report upon request and at regular rates, and will state the conditions/limitations of the model, set-up and procedures in this report.

MARIN Concept Basin

The MARIN Concept Basin has a length of 220 m, a width of 4 m and a depth of 4 m. The basin has a strong overhead carriage. The basin is equipped with a single flap wave maker on one end and a parabolic wave absorbing beach at the other end. The basin is filled with fresh water.

Schematic overview of the MARIN Concept Basin (CB):



- | | | |
|---------------------------------|----------------------|-----------------------|
| 1 Workshop | 4 Main carriage | 8 Wire mesh package |
| 2 Working pond with sluice gate | 5 Sub carriage | 9 Compressor carriage |
| 3 Beach | 6 Auxiliary carriage | 10 Towing carriage |
| | 7 Wave generator | 11 Rails |

On special request MARIN might also be able to allow concept tests in the Shallow Water Basin (220 m x 15.8 m, 0-1.1 m deep).



General rules

The general rules for free MARIN basin slots for (MKB) concept testing:

- Besides the conditions in this leaflet, MARIN General conditions of Sale apply to the project.
- The MARIN safety rules and regulations will apply and must always be followed.
- Basin scheduling can change as commercial projects will have priority.
- MARIN will try to maximise the freedom for the Clients to move around in the basin and the vicinity of the basin. However, it should be noted that MARIN has very strict rules for confidentiality. It will, therefore, be strictly forbidden to leave the assigned area without escort of authorised MARIN staff.
- Clients will be welcome each day in the morning (around 8.00 hours) at the MARIN reception and will leave at the end of the working day (around 17.00 hours).
- MARIN will bear no responsibility whatsoever for the quality of the test.
- In publications about the tests, reference will be made to this initiative as follows: 'MARIN made its Concept Basin available for these concept tests free of charge' (or similar). Concept tests in the MARIN Concept Basin may, however, not be advertised as normal MARIN tests and results can only be published with written approval from MARIN (if MARIN data reporting was agreed).
- MARIN will have the right to cancel or terminate the project.
- The offer is in principle valid for one year.
- Confidentiality forms the basis of doing concept tests at MARIN. The IP rights of the project always remains with the Client. This is MARIN's policy in general and remains as such for every project. MARIN will not disclose any information that is received in this project without permission of the Client. MARIN, however, cannot be held responsible when information of the project is disclosed somehow during the project.

For more information contact
MARIN; Jaap de Wilde
T + 31 317 49 34 93
E j.dewilde@marin.nl