

# Ocean Industries – RCN instruments on bioeconomy and oceans

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# The Research Council of Norway

## – a key player in Norwegian research

- Covers all science and technology fields
- Budget of 9.7 billion NOK for 2018
- Adviser to the government
- **Research funding**
- Networking and dissemination
- **International cooperation**

## R&D for the Industry

- Innovation Project for the Industrial Sector
  - To stimulate R&D activity directly in industry
  - The company and any partners will generally fund at least 50 per cent of the project costs.
  - Only Norwegian companies can apply, but may seek funding on behalf of a consortium.
  - International cooperation will be assessed in relation to the extent and quality of the international cooperation activities set out for the project.

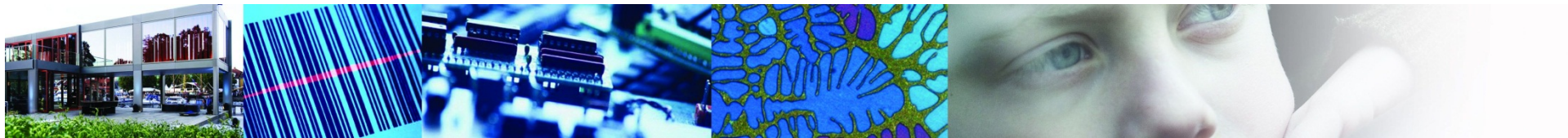
- Knowledge-building Project for Industry
  - Industry-relevant competence development in the Norwegian research community
  - Norwegian institutions can apply in collaboration with industrial partners
  - The project normally includes a doctoral-level educational programmes.
  - The support provided by the Research Council may not exceed a maximum of four times the total cash contribution from the companies.
  - Common with international collaboration





# User-driven Research based Innovation (BIA)

- Open competitive arena for innovation projects
  - Independent on theme and sector
- Only the best projects are awarded grants – combination of
  - Significant potential for value creation in Norway
  - Innovation with clear commercial focus
  - Research at a high scientific/technological level
- At least one partner established with research system or industry in Norway
- R & I challenges in the project is such that the applicant needs cooperation with an external R & I partner, nationally or internationally
- **Deadline October each year**





## SkatteFUNN – tax deductions for documented R & I costs

- Øke verdiskaping og bedre konkurransekraft i **næringslivet** ved å stimulere til økt satsing på FoU
- 20% ztax deduction for SME, 18% for large
- For experimental development and industrial research – but not running costs
- Open-ended submittance of electronic application – do not wait until September 1st.
- One company can have several running projects within the yearly framework
- SkatteFUNN can be combined with other types of project support

## Basic Research

- Researcher Project
  - To promote scientific renewal and development of disciplines and/or to generate new knowledge about issues relevant to society.
  - Norwegian research institutions can apply
  - Industry can partner in projects
  - International cooperation will be assessed in relation to the extent and quality of the international cooperation activities set out for the project.



# INTPART “International Partnerships in Excellent Education, Research *and Innovation*”

## INTPART programme objectives:

- Develop world-class research and education in Norway – through international partnerships.
  - Expand cooperation between research groups considered to be at the **international forefront** or with the **potential to become world leaders** in their fields.
  - Enable long-term *institutional partnerships* with strong academic groups in **Brazil, Canada, India, Japan, China, Russia, South Africa and the USA.**
- A horizontal row of eight small flag icons. From left to right, they represent: Brazil, Canada, China, India, Japan, Russia, South Africa, and the United States.
- **Align with the strategic plans** of the applicant institution, and include academic partners, strategic leadership and administration.
  - Strengthen **integration of higher education- and research activities.**
  - Educational cooperation to be integrated in the institution’s educational programs, and must **extend beyond collaboration between individual researchers**
  - Facilitate **cooperation with the business and public sectors, when relevant.**



## INTPART Activities eligible for funding

- **mobility stays** by students, researchers, managers and administrative staff
- **workshops**, seminars and conferences;
- intensive **courses**, field courses, summer schools, etc.
- cooperation on **curriculum development**, joint courses, educational programmes and/or degree programmes;
- joint **teaching and supervision**
- **other activities that encompass** international research and educational cooperation, *and cooperation with private and public enterprises*.
- salary and indirect costs for administrative task - may be covered. *See call text for limitations.*





## **2018 call: NOK 80 million to be awarded with application deadline April 25**



- **New projects: 3-year projects** (up to 4.5 mill.)
- Extensions of projects: 3-year projects (up to 3,5 mill.) or 4-year-projects (up to 5 mill.)
- Collaborative partnerships with institutions in one or more of the eight priority countries.
- Pilot: partnerships with institutions in Germany and/or France
- Funding for partnerships may be sought within **all subject areas**.
- Industry participation highly recommended
- **See call text for details!**

## Indiaprogramme:

### Motivation for collaboration with India based on:

- High quality research
- Meeting global challenges
- Capacity building
- Access to Indian markets
- Insight into research and innovation systems



## Priorities in Program of Cooperation (under the bilateral agreement)

- **Climate research including ocean research** and arctic/polar research
- Clean energy
- Geotechnology and geohazards
- **Marine research** - bioprospecting and polar research
- Nanoscience/-technology
- Vaccines - human and fish/ animal, including vaccination programmes and biotechnology of new vaccine development
- Information and Communication Technologies
- Glaciology
- Medical research (Cancer, diabetes, infectious diseases etc)
- **Bioeconomy**
- **Industrial R & D** relevant/complementary to both countries





## Recommendations from the Roadmap for research cooperation with India

- Important thematic areas for future cooperation are:
  - ICT, health, bio economy, **marine research and aquaculture**, polar research and energy
- Relevant social science topics:
  - Political and societal issues, economy research
- Areas for Innovation oriented research:
  - **Maritime sector, Marine sector, Oil and gas**, energy



## **Current activities within ocean space by the Indiaprogramme**

- **Mapping of Indian research institutions**
- **Survey; selected Norwegian institutions**
- **Explore anchoring at and cooperation with RCN thematic programmes**
- **Prepare to follow up MFA's focus on Ocean Space**



# Ocean Technology scheme (Havteknologiseringen)

- omprises all Ocean industries
- Sector pecific programmes:
  - Marine: HAVBRUK, MARINFORSK, DEMOHAV
  - Maritime: MAROFF, DEMOHAV
  - Oil & gas: PETROMAKS 2 & DEMO 2000
- Inm addition:
  - Bio- resorces: BIONÆR



## Purpose of RCN instruments on oceans

The instruments focus on the **entire research system**, from universities, colleges and publicly funded research institutes, to private companies, both at the manufacturer and supplier level.

The instruments shall contribute to **knowledge and technology development** for the management of ecosystems and resources in the marine areas to ensure **clean and rich seas** and production of **healthy and safe seafood**.

Together with a continued focus on research for the ocean-based industries, this will **increase value creation**.

## **Call on Innovation Projects for the Industrial Sector for Ocean relevant programmes**

- In 2018 a substantial amount of funding will be made available for innovation projects
- Call will be published primo May
- Send in sketch proposal!
- What kind of projects will not qualify?
  - Too small research component. Too large development component.

## Participating programmes IPN

- HAVBRUK
- MARINFORSK
- MAROFF
- PETROMAKS 2
- DEMO 2000
- Havteknologi
- BIONÆR
- Deadline October 10th. 2018



## In conclusion

- There are existing instruments/schemes
- There is a strong emphasis on Ocean Space as thematic area at RCN
- International cooperation is possible
- RCN are currently looking into potential for a targeted cooperation with India in Ocean Space research