



## Call for Applications: Internship at NORCE Norwegian Research Centre, in the South of Norway

### 1. Outline

NORCE Norwegian Research Centre is one of Norway's largest research institutes with location across the whole Norway from high North at Ny Ålesund, Svalbard to the south in Kristiansand, with the headquarter in Bergen. The institute is divided into six different departments including Energy, Health, Climate, Environment, Society and Technology with about 1000 employees.

The Smart Instrumentation and Industrial testing Group located in Grimstad (South of Norway) is engaged in research and innovations with new technologies involving pattern analysis methods, smart sensors, machine learning and control systems for enabling industrial automation and cognitive capabilities towards cost optimization and sustainable operational development of industrial processes. The group has long history in a tight collaboration with national and international industries from the offshore oil and gas, maritime, energy infrastructures and metallurgical processes. Our main focus is to strengthen competency and knowledge building with these industries and will lift them up into innovation actions for deployment and implementation into the operational production.

### 2. Work description

The intern(s) will work directly with scientists from NORCE on ongoing research activities related to the field of pattern analysis, machine intelligence, industrial automation and computer vision from drones for applications including:

- Offshore Oil and gas.
- Energy systems.
- Aquaculture.
- Maritime transportation.

The research and innovation activities typically target topics including:

- Automated registration, monitoring, inspection, control and visualization.
- Operational autonomy including robotization, safety, awareness and decision support, and industrial testing.
- Publications.

The intern(s) will be part of a specific research project chosen based on the applicant's motivation, technical background and skills. Eligible knowledge includes, but is not necessarily limited to computer vision, vision sensors, vibration analysis, acoustic emissions,

pattern analysis, recognition, machine learning and intelligence, condition monitoring, control engineering and unmanned technology.

### **3. Internship type**

Paid Internship (monthly allowance of 10 000 NOK that will cover accommodation/living expenses in Norway).

### **4. Time and place**

The Internship start date is 1<sup>st</sup> of June 2020 and 6 months onwards. Starting date and duration can be negotiated. NORCE will arrange summer school MALVIC “Machine Learning and Vision for Industrial Applications” 28-31.07.2020, Kristiansand, Norway where intern(s) can apply for attendance.

The work will take place at NORCE’s premises in Grimstad, Norway, which is located on the campus of University of Agder, next to Mechatronics Innovation Lab.

### **5. Application Process**

Internship candidate applies by sending

- CV
- Application including motivation to
  - 1)NORCE Research Director Dr. Nabil Belbachir, [nabe@norceresearch.no](mailto:nabe@norceresearch.no),
  - and**
  - 2) The Nippon Foundation Ocean Innovation Consortium, [ocean\\_innovator@ps.nippon-foundation.or.jp](mailto:ocean_innovator@ps.nippon-foundation.or.jp)

The deadline for submitting your application is 1<sup>st</sup> of April.

Selected candidates will be invited to an online interview within three weeks.

A notification on final decision will be given within six weeks of the application deadline.

### **6. Contact**

For further information, please contact

: the Nippon Foundation Ocean Innovation Consortium,  
[ocean\\_innovator@ps.nippon-foundation.or.jp](mailto:ocean_innovator@ps.nippon-foundation.or.jp)

**or**

:NORCE Research Director Dr. Nabil Belbachir, [nabe@norceresearch.no](mailto:nabe@norceresearch.no).