

Master
- Product- and
system design

How can we help you?

Our staff offers you the best possible advice about studying at Aalesund University College. Tell us your interests and studies in upper secondary school, and we can give you tips about the best programme for you.

Contact our staff for more information and visit our internet site:
www.hials.no.

Application deadline is the 15 April.



You can contact or visit us!

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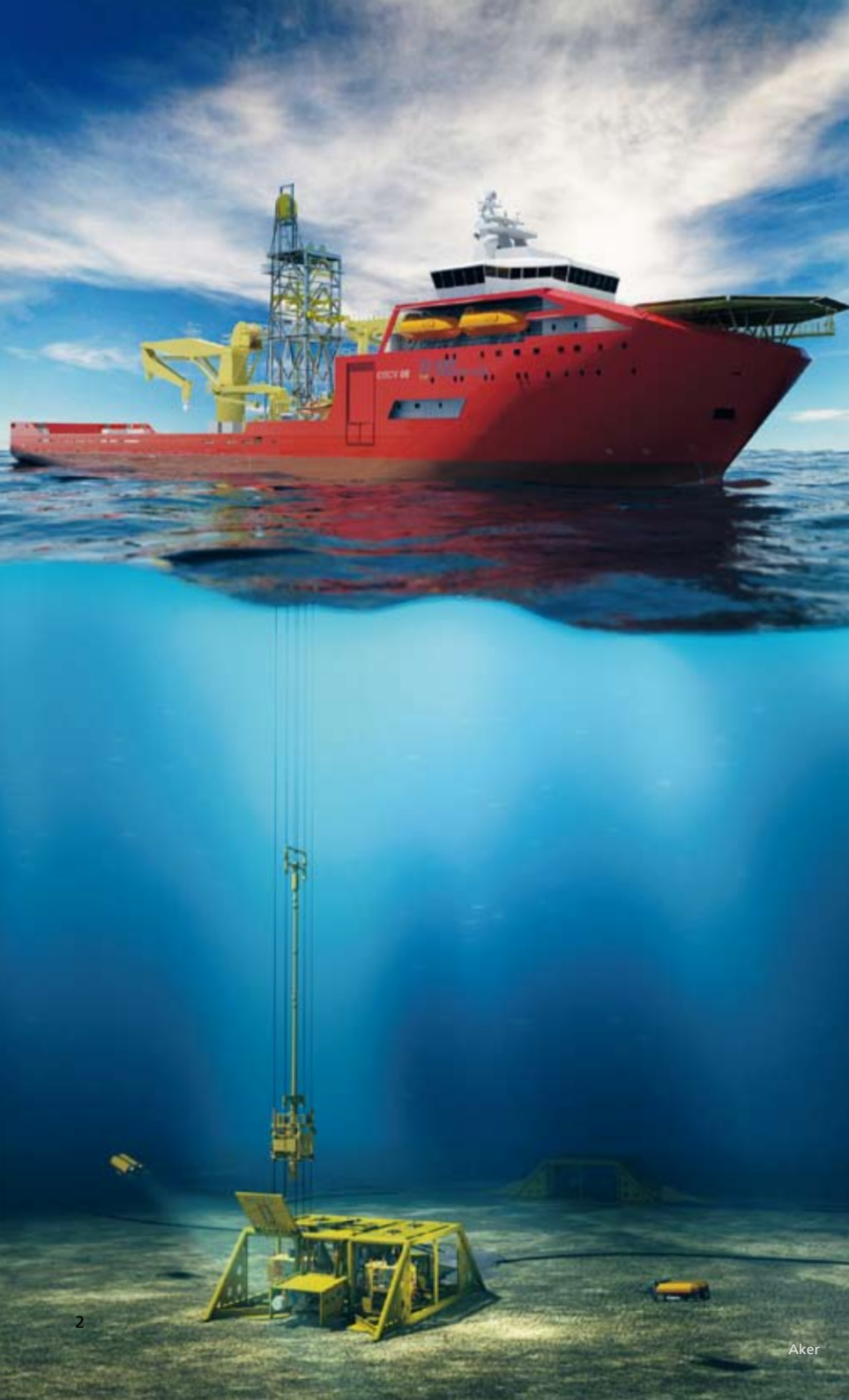
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Once an **engineer** - always an **engineer**

Jonathan, product designer

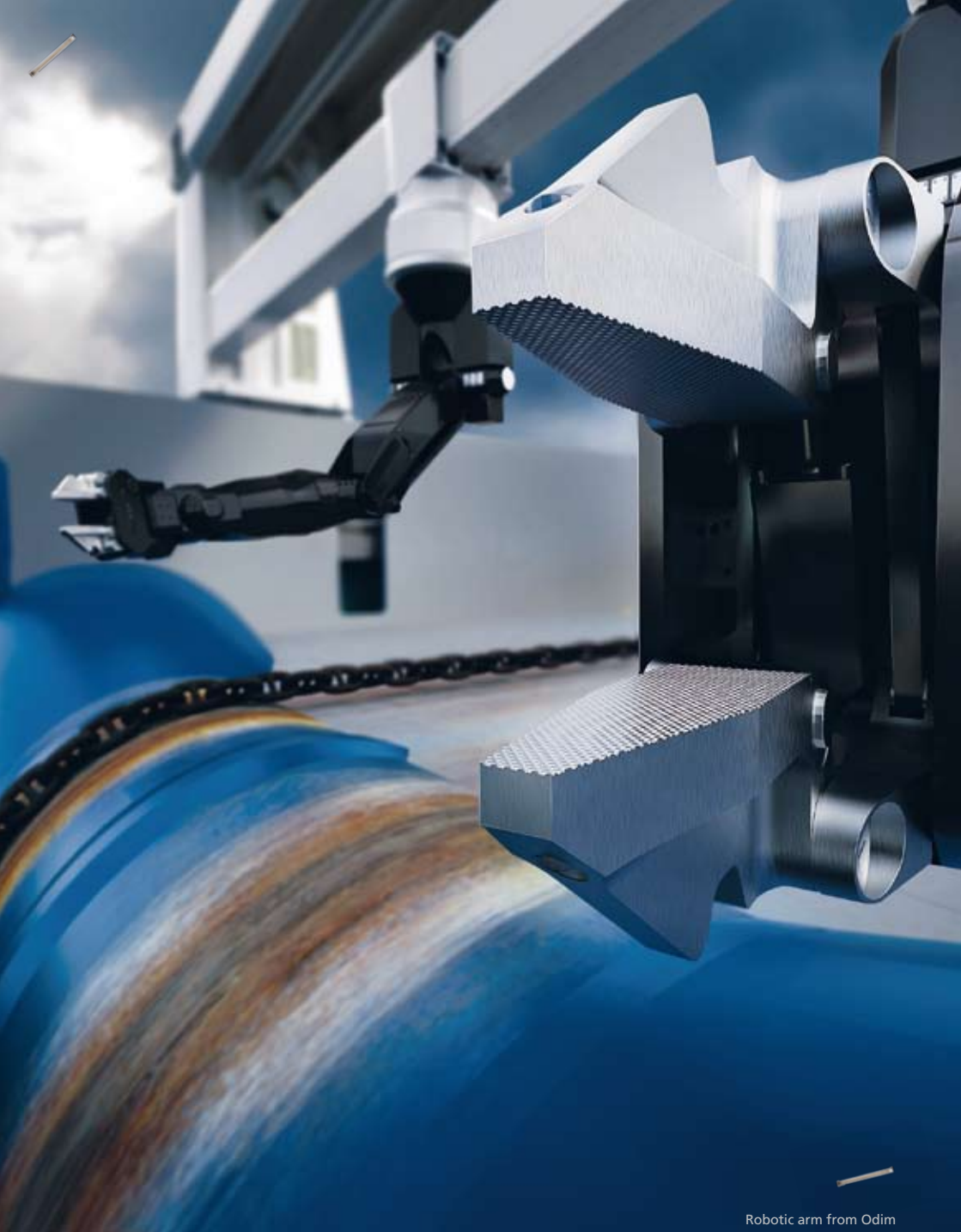


MSc – Master of Science – Product and System Design

Advanced maritime operations are at the centre of Western Norway's shipping activities. The future for product and system design is unlimited. As a graduate of our programme you can look forward to below zero temperatures and challenging projects in northern regions and working in areas sensitive to environmental change. In Brazil offshore facilities are going to be installed several thousand metres below the surface of the ocean. How can such a project be successful? Safety and environmental considerations are also important challenges in all such operational endeavours.

The programme focuses on the design of ship-equipment and maritime systems. Automated and remote-controlled deck solutions are being developed to safeguard crews performing hazardous tasks. Robots, cranes and winches are used in these solutions that must address the complex interactions between operators.

Environmental requirements aiming for zero emissions present enormous challenges for new machinery and propulsion systems. New technology, advanced vessels, operational systems, and the innovative use of materials are combined in meeting today's strict economic and environmental requirements. You can be a part of moulding the offshore-future with an advanced degree in product and system design.



Robotic arm from Odim

Aims and Goals of the Programme

- Machine systems
- CAE, virtual prototyping
- Systems engineering
- Materials engineering
- Product development and methodology
- Human factors
- Management, Lean Value Chain

Modules are taught by teams involved in maritime operations. The modules are one-week, intensive courses, which are a part of a post qualifying education. Qualified lecturers come from all over the world. Some course module examples are: ships and systems for cold regions, advanced marine operations, interaction between man and machine, design of product families, Lean Design, design and branding, modularisation, and Human Factors.

Structure of the Programme

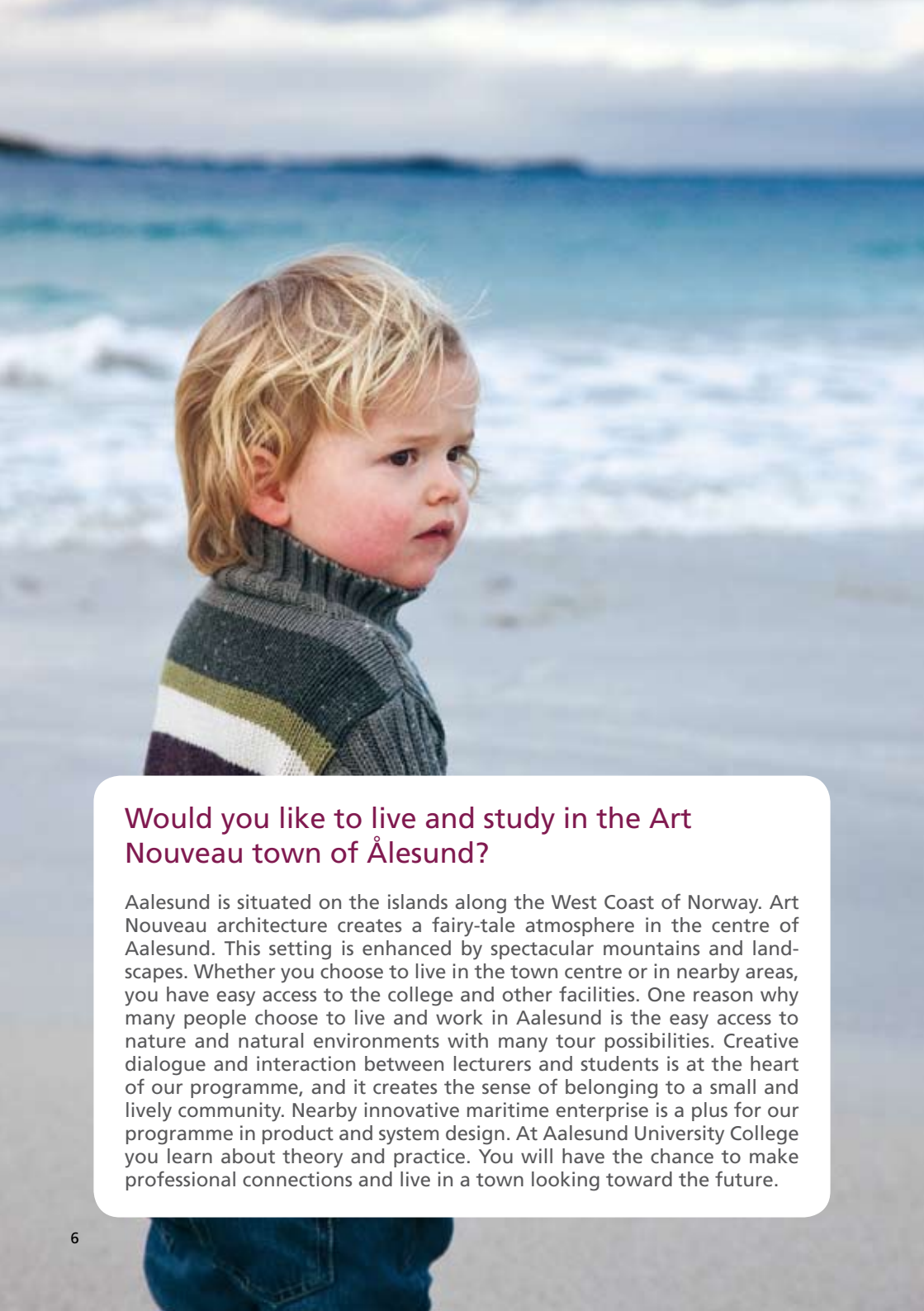
The first year is made up of 6 subjects and 8 modules. Each subject is scheduled for a given day of the week. This scheduling makes part-time study possible, where one can spend, for example, one or two days a week at Aalesund University-College. Each module is taught intensively over a one week period.

The second year includes more specialized studies, including projects and a master's thesis. Much of the programme is linked to industrial issues.

Part-time study programmes provide unique opportunities for combining theory and practice. Students who are employed can also include assignments initiated by their employer. Projects or problems relevant to the company can be linked to theoretical concepts in the course. Alesund University-College can arrange relevant contacts in industry for students.

Admission Requirements

The requirement for admission is a BSc in engineering in mechanical or marine technology or a documented, equivalent education. The programme is 2 years full-time, or 4 years for part-time studies. Applicants who in addition have 2 years relevant experience in product development, engineering and design may take a professional master's degree (1½ years of full-time study or 3 years part-time).



Would you like to live and study in the Art Nouveau town of Ålesund?

Ålesund is situated on the islands along the West Coast of Norway. Art Nouveau architecture creates a fairy-tale atmosphere in the centre of Ålesund. This setting is enhanced by spectacular mountains and landscapes. Whether you choose to live in the town centre or in nearby areas, you have easy access to the college and other facilities. One reason why many people choose to live and work in Ålesund is the easy access to nature and natural environments with many tour possibilities. Creative dialogue and interaction between lecturers and students is at the heart of our programme, and it creates the sense of belonging to a small and lively community. Nearby innovative maritime enterprise is a plus for our programme in product and system design. At Ålesund University College you learn about theory and practice. You will have the chance to make professional connections and live in a town looking toward the future.

