



AALBORG  
UNIVERSITY

leadENG  
PROJECTS

## PARTICIPATE IN THE DEVELOPMENT OF SUSTAINABLE SOLUTIONS

When you participate in a leadENG project, you have a unique opportunity to collaborate with other students across fields of study and disciplines. A leadENG project can provide you with a special understanding of your own expertise in relation to related fields. This is a sought-after skill in the industry when delivering sustainable and interdisciplinary solutions to society's major challenges across industries.

Søren Hageman Christensen, Regional Director at NIRAS, says:

*“To solve tomorrow’s tasks, we experience a growing need for employees who, in addition to specific professional insights, also understand holistic solutions across disciplines. Optimal sustainability is often found as a balanced solution between technical, social, and economic areas of interest. Therefore, it is crucial for our future employees to recognize and appreciate each other’s skills while possessing the ability to complement one another effectively.”*

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# leadENG PROJECTS

## ABOUT leadENG-PROJECTS

- Study groups across educational disciplines collaborate to develop sustainable solutions.
- The groups work within the framework of the semester's theme.
- Supervisors collaborate as a team to support the process.
- Actual physical products and setups are developed collectively, supported by the ENGINEERING faculty.
- Knowledge is exchanged continuously across groups.
- A final conference is held where results are mutually presented.
- Close collaboration with research environments and companies.



## EXAMPLES OF leadENG-PROJECTS

- **Building materials of the future** (replacement of clay in bricks with other materials e.g., old wind turbine blades).
- **Vertical-axis wind turbine** (design of a floating vertical-axis wind turbine including a hydrogen production unit).
- **Car construction** (construction of cars with either pure battery operation or with simulation of hydrogen and fuel cells).
- **Investigating gait performance using smartphones.**
- **AAU Space/Marslab** (development of robots for Mars exploration).
- **Personal aircraft for transporting one person.**
- **Microbial Power to X** (production of hydrogen from waste).
- **Catamaran for plastic collection and investigation of water conditions in ports.**
- **Saltmarsh plant Salicornia as a bio-resource** (study of the plant's beneficial effects as well as extraction and purification).



### WANT TO KNOW MORE?

Contact your supervisor to learn more about your opportunities to participate in a leadENG project. If you would like to read more about leadENG then scan the QR code below.



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