

AAU ENGINEERING & SCIENCE KNOWLEDGE FOR THE WORLD



WORLD-CLASS ENGINEERING

An MIT Study, U.S. News & World Report and Times Higher Education all place AAU in the global elite in engineering.

Confederation of Danish Industry: AAU is preferred collaboration partner

AAU students and researchers work closely with global companies like Grundfos, Danfoss, Vestas, Siemens, Gamesa, Sanken, China State Grid and Fuji Electric.

Engineering and Science with global goals

Our research currently includes battery systems for storing sustainable energy; power electronics that can increase the reliability and service life of wind turbines; sustainable buildings; biogas and green jet fuel; smart and sustainable production; statistical methods to help forensic geneticists; and DNA mapping of bacteria to benefit health and environment.

AAU HAS EUROPE'S BEST ENGINEERING PROGRAMMES AND THE FOURTH BEST IN THE WORLD

According to MIT and 50 global thought leaders¹. AAU is surpassed by only three American universities.



Top 5

1. Olin College of Engineering (US)
2. Massachusetts Institute of Technology (MIT) (US)
3. Stanford University (US)
4. Aalborg University - AAU (DK)
5. Delft University of Technology (NL)



European champion in Engineering:

U.S. News & World Report named AAU as the world's 4th best university in Engineering – and best in Europe.²



World's most cited researcher

According to Times Higher Education, Frede Blaabjerg, AAU, is the world's most cited researcher in Engineering.³

VILLUM FONDEN



EUR 9 million for independent research

"Talented researchers do good research," says the Villum Foundation. The foundation has donated millions to AAU research, including EUR 9 million in 2017 for two Villum Investigators.⁴



Honours and EUR 2.1 million for research on energy savings

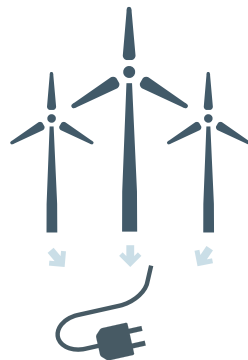
In 2018, Kirsten Gram-Hanssen received the ERC's most distinguished honour and EUR 2.1 million for research on the energy efficiency and savings.⁵

AAU paves the way for a sustainable energy supply

AAU researchers are world leaders in integrating renewable energy sources in the grid.⁶

AAU has contributed to the development of a suction bucket foundation for offshore wind turbines that is 40% cheaper and close to 100% reusable.⁷

An AAU-developed algorithm can also save millions by detecting faults in wind turbines before they happen.⁸



Research on bacteria benefits health and the environment

Researchers at AAU have developed a new method to map millions of bacteria in record time. A huge breakthrough and an important contribution to research in health, environment and biotechnology.⁹

Wastewater purification can be done much faster, cheaper and more reliably with online DNA analysis developed at AAU. In the long term, it may revolutionise wastewater treatment facilities throughout the world.¹⁰



SOURCES:

- ¹ Massachusetts Institute of Technology (MIT). The Global State of the Art in Engineering (Graham, Ruth 2018)
- ² U.S. News & World Report, Best Global Universities, 2018
- ³ Times Higher Education. World University Rankings 2017
- ⁴ AAU.dk: Top Researchers Rewarded with DKK 67 Million
- ⁵ ByensEjendomme.dk: EU-bevilling på 16 millioner til dansk forskning i boligens energiforbrug

- ⁶ AAU.dk: More solar energy into the grid with better control/International honour to energy researcher from AAU/Global businesses flock to North Denmark top researchers
- ⁷ AAU.dk: SGRE and AAU to lead project making offshore wind more affordable
- ⁸ AAU.dk: New algorithms can save wind turbine owners DKK millions
- ⁹ AAU.dk: Ny metode skal kortlægge 1 mia. bakterier på rekordtid
- ¹⁰ AAU.dk: Online DNA analysis to control bacteria in wastewater treatment plants