

# Design for Agrifood and Ecological Systems

Wageningen University's new Engineering Doctorate degree



**Developing the future leaders of engineering and business within the domain of Agrifood and Ecological Systems. This new Engineering Doctorate (EngD) programme prepares individuals for professional engineering careers in academia, business, industry and the public sector to contribute to the sustainability of Agrifood and Ecological Systems.**

The EngD programme involves an education component (48-60 ECTS) and a design component (60+ ECTS) in the domain of Agrifood and Ecological Systems. Candidates obtain knowledge and insights necessary to create a novel design which contributes to solving "real world" problems. The design assignment is provided by industry, (non) government organisations, or other societal stakeholders wishing to improve or develop innovative equipment, processes, tests or devices. The programme bridges the gap between academia and society to provide novel solutions to current challenges utilising the latest scientific insights.

## Possible design topics

- Field robot system design for harvesting and weeding
- Equipment design for primary agriculture, livestock farming, and other biological production systems
- Designs for greenhouse horticulture (such as vertical farming, autonomous/emission-free greenhouses)

- Optimising wild corridors between natural areas in an anthropogenic landscape
- Development of a digital twin

If your organisation has a design challenge in the field of Agrifood and Ecological Systems, this EngD programme may be of interest to you.

### Interested in this new EngD programme?

For more information, please visit our [website](#) or [contact us](#) by email.

*This programme is part of the partnership between the four technical universities (4TU) in the Netherlands under the auspices of the School for Technological Design, Stan Ackermans Institute ([www.4TU.nl/sai/](http://www.4TU.nl/sai/)).*