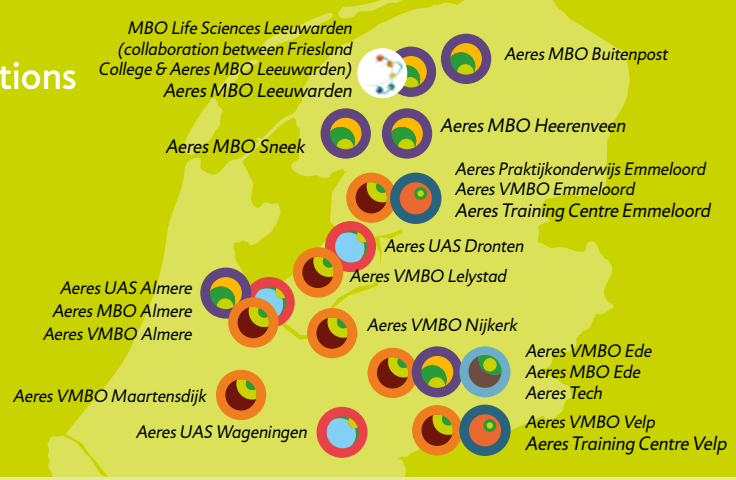
AERES

Our world of
Technology

Technological innovations are conquering the green domain. Virtually every green programme has a technology component. This includes smart farming with drones, milking robots, GPS systems on tractors and Farmbots. Aeres applies new technology for all programme levels for the green change agents of the future. This starts with our practical education in Emmeloord. In pre-vocational secondary education, students learn to program apps or drones. Agricultural engineering is booming and offers plenty of prospects for vocational students. For refresher courses and training in mobile and refrigeration technology, Aeres Tech is the perfect knowledge educator. And what about the Agri Innovation Centre? This is where Aeres collaborates intensively with the business community, allowing higher professional students to gain experience within the context of the sector in which they are planning to work. Such is the riches of our world of technology!

Teaching locations



Training courses and levels

Practical education
At Aeres practical education, students can: obtain industry certifications for basic skills in the field of technology, amongst others.

Pre-vocational secondary education electives
- Create and improve a product
- Motorised two-wheeler
- Installing and assembling
- Green technology
- The green fleet
- Practical arc welding
- Robotics
- Drones

Vocational education courses
Level 1:
- Food industry assistant

Level 2:
- Basic mobile equipment technician
- 1st refrigeration and climate systems mechanic
- Air conditioning/heat pump technician
- Food & technology employee
- Agricultural contracting employee

Level 3:
- All-round mobile equipment technician
- (Service) technician refrigeration and climate systems
- Skilled food & technology employee
- Skilled agricultural contract worker

Level 4:
- Technical specialist mobile equipment
- Refrigeration and climate systems maintenance technician
- System designer refrigeration and climate systems
- Food & technology professional
- Crossover professional expert in industrial production of foodstuffs
- Professional expert agricultural contract work
- Professional expert arable farming, cultivation and green technology

Higher professional education: Associate degree
- Agrotechnology & Management

Higher professional education: Bachelor
- Agrotechnology & Management
- Teacher and Knowledge Manager Agrotechnics
- Teacher and Knowledge Manager Services and Products
- Accelerated course Teacher and Knowledge Manager Agrotechnics (teaching qualification in 1 year) (teaching qualification in 1 year)
- Geo Media & Design

Courses and training
More than 40 courses and training sessions in the field of, among others,
- (Diesel) engines
- 3D and VR applications
- Earth & Climate
- Analysis of (geo) data based on big (sensor) data
- Drones
- EFBD (Energy Performance of Buildings Directive)
- Electrical engineering
- F-Gases and certification
- Greenery (forest cutting, chain saws, etc.)
- Precision agriculture
- Inspection (master) and legislation
- Refrigeration engineering
- Agricultural engineering
- Welding
- Air treatment and climate control
- Machine use, control and safety (e.g. forklift)
- Food technology
- Heat pump

Studentenaantallen

Vocational education
± 725 students

Higher professional education Associate degree
± 15 students

Higher professional education Bachelor
± 300 students

Courses and training
± 3.000 participants

Activities

Amongst others:

- STEAM (Sciences, Technology, Engineering, Arts & Mathematics) in pre-vocational secondary education
- Green Drone Academy in Almere
- Data analysis by higher professional students
- Product and practical training courses
- Tow truck team
- Tractor pulling team
- Aeres Tech Talent (companies and professionals are welcome for recruitment and selection, temporary staffing or secondment)
- Learning resource management
- Teaching materials development
- Retraining programs
- Productions and events

Internal and external practical facilities

Amongst others:

- Aeres Farms
- Agri Innovation Centre with, amongst others, training facilities in the field of technology, precision agriculture and soil science
- Various practice rooms for education on, amongst others, heat pumps, hydraulics, electrical engineering, motors, F-gases, field spraying and soldering
- State-of-the-art installations for transcritical CO_2, ammonia/CO_2 and hydrocarbon
- Tractor test track and state-of-the-art tractors
- Aquaponics
- Geolab
- Farmbot
- Green screen education studio
- Emergency container

International

- Higher professional students (100%) can do internships abroad
- Student exchange with universities in Europe, amongst others

Collaborations

Amongst others:

- **With (international) business community, e.g. tractor and machine importers/wholesalers, mechanisation and contracting companies**
- **With (Aeres) educational institutions at vocational, higher professional and university level**
- **With governments and research institutions**
- **With industry associations, e.g. BOVAG, BMWT, DGTA, Fedecom, HISWA-RECRON, NVKL, VIV, Cumela**
- **Farm of the Future**
- **GreenPact accelerator program Digitisation & Automation**
- **Fruit Tech Campus**
- **National Living Garden Precision Agriculture (NPPL)**
- **Media HUB**
- **Strong Technology Education**
- **Environmental Law Association (VMR)**

Research and projects

Research groups

- Sustainable Soil Management
- Grassland & Grazing
- Innovation & Green Urban Space
- To measure is to know: healthy surface water through innovations in monitoring, modelling and measures
- Precision Agriculture

Examples of projects

- Automated product growing
- under solar panels
- Development of autonomous cannabis robot
- NIRS: application/administration animal manure

More information? ? www.aeres.eu - v.1 | 2021

Talent for growth