

CNH – Harvesting Automation Concept Systems

**JOIN
OUR
Engineer**

What does the role entail?

As a Harvesting Automation Concept Systems Engineer, you will develop next-generation sensing, control and automation technologies for future harvesting equipment. You will lead innovation projects from early concept creation through simulation, prototyping, vehicle integration and field validation.

Key responsibilities include:

- Developing innovative sensing, control and automation concepts for future harvesting products.
- Defining system architectures, functional concepts, requirements, interfaces and validation strategies.
- Evaluating and maturing emerging technologies in automation, AI, machine learning, robotics and advanced controls.
- Developing simulation models and collaborating with simulation teams to assess concepts before vehicle implementation.
- Leading field-testing activities and validation campaigns under real harvesting conditions.
- Designing robust solutions that perform reliably in challenging agricultural environments such as dust, mud, vibration and varying crop conditions.
- Analyzing test data, identifying root causes and implementing improvements to achieve performance targets.
- Collaborating with global engineering teams, universities and technology partners to bring innovative concepts into future product programs.
- Supporting and mentoring students and interns involved in innovation projects.
- Contributing to CNH's patent portfolio, technology roadmaps and long-term innovation strategy.

Who are we looking for?

We are looking for a curious and innovative engineer who enjoys exploring new technologies and transforming complex challenges into practical solutions.

You bring:

- A Master's degree in Mechatronics, Electromechanical Engineering, Control Engineering, Robotics or a related field.
- At least 4 years of experience working with mechatronic systems.
- A strong interest in innovation and new technology development.
- Knowledge of systems engineering, controls, sensing technologies, simulation or software development.
- Strong analytical and problem-solving skills.
- The ability to work effectively in multidisciplinary and international teams.
- Willingness to travel and participate in field evaluations (approximately 6 weeks per year).

Preferred qualifications include:

- A PhD or advanced specialization in Mechatronics, Controls, Robotics, Automation or Artificial Intelligence.
- Experience with Matlab/Simulink, computer vision, machine learning, data analytics, Python, embedded software, vehicle automation or simulation.
- Experience within agricultural, off-road or mobile machinery environments.
- Experience collaborating with universities or research partners.
- A genuine passion for agricultural equipment and harvesting operations.

What makes you successful

- Curiosity to explore new technologies and challenge existing solutions.
- Strong systems-thinking mindset and ability to connect sensing, controls, software, machine performance, and customer needs. Ability to combine conceptual thinking with hands-on engineering.
- Excellent communication and collaboration skills.
- Passion for turning innovative ideas into practical solutions that create customer value.

What do we offer you?

Working at CNH means working in an international environment with numerous development opportunities. At our site in Zedelgem, you will work alongside more than 2,500 colleagues on innovative agricultural machinery. You will receive:

An attractive salary package with fringe benefits such as insurance, meal vouchers, eco vouchers, a cafeteria plan (Flex Ben), and 20.5 ADV days on top of your statutory vacation.

A traffic-free working environment that is easily accessible.

The opportunity to grow in a multidisciplinary team with an impact on the end product.

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