Internship

Robotic NDT

Ultrasonic inspection of large objects

SAM XL is a manufacturing automation expertise centre that forms a unique liaison between TU Delft faculties, the industry and suppliers. We develop software and hardware to enhance the intelligence, connectivity and flexibility of industrial robots. This robot technology for executing complex and varied tasks on large structures is validated and demonstrated in our industrial-scale automation lab.

Robotic Non-Destructive Testing (NDT) is an method for inspecting large composite structures. A robot on a mobile platform can manoeuvre itself around aircraft or wind turbine blades, and inspect non-flat surfaces. The robot could be equipped with cameras, depth sensors, ultrasonic probes etc.

Internship openings

- The internship involves automating the Non-Destructive Testing inspection process. You'll assist in interfacing with NDT sensors to collect data and work with the software stack to process and analyse it. Key tasks include integrating sensors, developing data processing algorithms, automating defect detection, and also involve ensuring accurate results compared to manual inspection.

Your profile and skills

- HBO / WO engineering student
- Experience with programming in relevant tools
- Independent worker
- Fast learner
- Enthusiastic about composites

What we offer

- A cool workspace with a lot of robots
- Access to high-end hardware
- Dynamic and experienced colleagues
- Mentoring in task scoping and implementation
- Exposure to robotic manufacturing technology know-how
- An internship renumeration.

Interested? Send your CV and a short motivation to **internships-samxl@tudelft.nl**

SAM XL