

# Master Internship at Shell

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## *Digital Innovation & Robotics at Europe's largest refinery*

### *Company Profile*

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**Company:** Shell Nederland Raffinaderij BV

**Department:** Business improvement, Digital innovation

**Location:** Pernis

**Website:** [www.shell.com](http://www.shell.com)

### *Assignment for Intern Digital Innovation*

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**Detailed description of work to be done:**

Shell Pernis is the largest refinery in Europe. Within Shell, safety plays a very important role. The digital innovation lab for process safety in Shell is located at Pernis. This means that a number of digital innovation projects focused on process safety are initiated at Pernis.

One of these projects is focused on using new digital technology for detection of (gas) leaks. For this purpose we are developing a robot platform, that is able to drive autonomous in the chemical plants and to capture (infrared) footage.

As an intern, your main task will be to work on a solution that is able to automatically and reliably detect gas leaks in the captured footage. In addition, you are encouraged to think of and to work on other (digital) opportunities that this robot initiative can offer.

**Required profile of candidate:**

Strong programming / Machine Vision / Image Analysis skills

### *Period of the internship*

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Preferable start date : As soon as possible  
Duration : 12-20 weeks (*minimum 12 weeks is required for TUD AE*)  
Remuneration : ~ €500,- /month

### *Application*

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Students who are interested can send their CV and motivation letter directly to:  
[bas.verhagen@shell.com](mailto:bas.verhagen@shell.com)

Please e-mail this form to the Internship Office TUD AE: [internship-ae@tudelft.nl](mailto:internship-ae@tudelft.nl)