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What does Esko stand for?
Esko is an international software company that develops integrated software solutions which accelerate the go-to-market process of packaged goods. Our products empower teams to support and manage the packaging design and print processes for brand owners, retailers, pre-media and trade shops, manufacturers, and converters. We are a part of Veralto, and together with our sister companies, we safeguard the world's most vital resources.

To keep innovating and developing, we are looking for enthusiastic engineers to enforce our development team.

An internship is an excellent opportunity for students to get to know our company and to work in a dynamic environment based around software development.
We have a variety of different internships in different domains which we offer to engineering students. Please note that the internships take place in the framework of a formal education/school and is to be performed from our office in Gent, Belgium.
If you are interested in one of these projects, please apply via mail to maarten.vandenberghe@esko.com or via this link:
https://jobs.veralto.com/global/en/job/R10257994/R-D-Trainee.

1. Extension of JLogg Plugin framework
JLogg is an internal tool used to analyse WCR log files. Goal of this project is to extend the plugin framework to make it possible to get "details" of a given log line (eg. frequent request is to be able to format SQL queries in a more readable format then a single line string).
Prerequisites: Java

2. JLogg Nubarron Report UX Improvements
JLogg (an internal tool used to analyze WebCenter log files) was adapted to have a Nubarron Report plugin. This plugin is still very bare bones. The goal of this project would be to make the UX a lot more intuitive so that associates from the Customer Support organization can utilize it as a self-service tool to analyze issues at customers.
Prerequisites: Java

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3. JFR Based Monitoring
Currently we use an in-house written monitoring tool while the Java world community is moving to JFR (java flight recorder) monitoring.
Goal of this project is to investigate how we can leverage JFR and generate the same reports that we already have today using information coming from JFR. And to experiment with different (new) JFR metrics and how we could adapt them in the future.
Tags: JFR
Prerequisites: Strong Java (and related tooling) skills

4. E-mail notification UI Builder
Develop tool for allowing drag/drop e-mail notification customization. Use an existing UI Builder and implement HTML e-mail generation.
Prerequisites: TypeScript, React, Java

5. Building a neural network for simulating spot color overprints
Package printing is often done with other inks than just CMYK. These inks are called spot inks. The red on a Coca-Cola package is not printed with Magenta and Yellow but with a dedicated red spot-ink. When two or more of these spot-inks overprint each other in specific percentages, a new color is created. For spot-inks it is not possible to measure with a spectrophotometer overprints of all possible spotcolors because there are thousands of possible inks. To predict the color that results from overprinting spotcolors we currently have three mathematical/physical models. However, these models are not always close enough to the printing reality of the customer.
Tags: Machine learning
Prerequisites: Python, Tensorflow or Pytorch, C/C++

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Length: 180 hours

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