Graduation project

MOTT MACDONALD

The Switch that Never Fails (nor moves)

Location	Arnhem HQ and Utrecht office
Level	Master graduation (final year)
Hours	full-time (40 hours weekly)
Contract	5-6 months
Salary	350 euros monthly (gross) + NS Business Card

Working at Mott MacDonald

Mott MacDonald is a global multidisciplinary engineering, management and development consultancy, with over 16,000 employees active in 140 countries. Our employees are inspiring, highly-motivated and quality-driven people that collaborate closely with our clients to develop the best possible solutions. Mott MacDonald provides excellent opportunities for cutting edge and out-of-the-box research in combination with personal development while working in an international context.

Project Description

Turnout (switch) failures cause the most train traffic disruptions. Often, the failure originates in the turnout's moving mechanism. Is it possible to make a turnout without a moving mechanism? Such a turnout would not fully replace traditional moving turnouts, but would be extremely robust in all weather conditions. Your assignment is to investigate what this turnout would look like from a railway physics and manufacturing perspective, and to evaluate where and how it could be deployed in Dutch railway operations. Depending on the outcome of your investigation, your turnout design will be built on site in the Amersfoort railway yard as a 1:1 prototype.

What we offer you

- Work at the cutting edge of development and innovation, investigating unexplored concepts;
- Gain wider knowledge and experience from experts nationally and internationally;
- Visit, and learn from, our many projects in the field;
- Work within a dynamic and inspiring team eager to teach, develop and collaborate.

Interested?

For more information please contact Dr. Eelco Schrik at eelco.schrik@mottmac.com or 06 12 50 08 43.

A selection procedure applies for this challenging graduation project / internship. If you wish to apply, please submit your résumé and motivation. An application interview will be part of the procedure.