



# **VOLVO PENTA**

## **Waste heat recovery**

### **Thesis Background**

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To further improve efficiency of our marine and industrial engines Volvo Penta would like to investigate the potential use of waste heat recovery.

WHR converts e.g. exhaust gas energy to mechanical/electrical work which can be used in delivering extra power or powering auxiliaries.

### **Thesis scope of work**

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- Literature study on theoretical background and concepts in production
- Evaluate technical feasibility of a range of whr concepts qualitatively against different customer needs and applications
- Simulation of one or two concepts in one marine and one industrial application
- Packaging study of concepts modelled

### **Qualifications & Required Documents**

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Two students with:

- Thermodynamic background
- Interest in engines
- Experience with Gt-power or similar tools

Please send your application including CV, Cover Letter, and Transcript of grades.

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## Practical information

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**Thesis Level:** Master (30 ECTS points)

**Language:** English

**Starting date:** January 2019

**Number of students:** 2 students

**Last application date:** 181201

**Examiner proposal:** Jelmer Johannes Rijpkema

## Contact

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Björn Wessman, Innovation and emerging technologies manager, Volvo Penta, bjorn.wessman.3@volvo.com

Patrik Landberg, 1D/3D performance and combustion simulations, Volvo Penta, patrik.landberg@volvo.com

Jelmer Rijpkema, phd student Chalmers, jelmer.rijpkema@chalmers.se

## About us

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The Volvo Group is one of the world's leading manufacturers of trucks, buses, construction equipment and marine and industrial engines under the leading brands Volvo, Renault Trucks, Mack, UD Trucks, Eicher, SDLG, Terex Trucks, PrevoSt, Nova Bus, UD Bus, Sunwin Bus and Volvo Penta.

With Volvo Penta, a world-leading supplier of engines and complete drive systems for marine and industrial applications, you will be part of a global and diverse team of highly skilled professionals who works with passion, trust each other and embraces change to stay ahead. We make our customers win.



<Add more information about your department>

**Entity:** AB Volvo Penta

**State / Province:** Västra Götaland

**City/Town:** Göteborg

**Employment/Assignment Type:** Thesis

**Functional Area:** Technology

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