



# Fibre composites – materials and processes

Faster cars, cheaper flights or high performing sport goods.

Lectures, labb and project assignment

Lightweight can be used for many reasons in numerous products and composite materials is a fantastic enabler of this with its specific properties.

But how do you select the best material and process to achieve a sustainable composite product that also is affordable?

This course will present state of the art composite materials, manufacturing technologies, design criteria, material selection strategies etc that is used in different industry sectors today.

The course consist of 15 lectures, a project assignment and a manufacturing and testing labb.

Each student will perform a feasibility study of a composite product of their own choice. The project results will be presented in 5 short reports on product specification, design, material and process selection and cost estimate. These reports are aligned with the lectures on the same topics and we will spend time on reviewing the work of your peers.

Dr. Magnus Burman has worked with composite materials for over 20 years through several industry driven research projects. He holds a position as a senior researcher at Royal Institute of Technology, Stockholm, Sweden.

