Manufacturing companies must combine profitability and environmental protection measures. Business growth must be made possible while at the same time reducing negative environmental impacts if the livelihood of future generations is to be preserved. Therefore, manufacturing companies must evaluate their production according to ecological and economic criteria. A software-supported evaluation tool is to be developed in a final thesis, which makes it possible to evaluate the manufacturing process of products according to ecological and economic criteria. The mandatory data basis is already available. Preliminary work can be used in the development of the evaluation tool so that a short processing time is possible.

Development of a software-based evaluation tool for manufacturing technologies based on existing concepts
Implementation of existing evaluation methods into the tool
Validation of the evaluation tool on the data available

Motivation and commitment
Interest in sustainable production
Good or very good GPA
Previous knowledge of Excel or of a programming language is advantageous

Comprehensive support including regular coordination meetings
Existing evaluation model to be implemented, data basis and literature starter set
Specifically defined tasks
Self-reliant implementation
Insights into a topic of high industrial relevance
Workplace at the institute