



Subjects for projects/final thesis for incoming students at HSU – Fall 2017/2018

Supervisor	Prof. Dr. Walter Commerell
Institute/Department	Institute for Energy- and Drive Systems
Mail address	commerell@hs-ulm.de
Research field/project	Energy Storage Systems
Maximum number of students, who could work on the project	2
Practical training / Bachelor Thesis / Master Thesis	Bachelor Thesis
Compulsory Qualification of students	Electrical engineering, Microprocessor programming
Date of stay (from-to)	1st October to 31st January
Description	Design of a energy management system based on standard uP like Raspberry Pi, Arduino
Further comments	

Supervisor	Prof. Raphael Arlitt
Institute/Department	Institute of Energy and Drive Technologies
Mail address	arlitt@hs-ulm.de
Research field/project	Wind Power Technology and Siting
Maximum number of students, who could work on the project	2
Practical training / Bachelor Thesis / Master Thesis	Project Work, Thesis Work (Bachelor/Master)
Compulsory Qualification of students	Basic Engineering Courses
Date of stay (from-to)	Around one semester (ca. 6 month)
Description	Various topics of wind power technology engineering
Further comments	Contact Supervisor via Email



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Supervisor	Stephan Schlüter
Institute/Department	Mathematics, Natural and Economic Sciences
Mail address	Stephan.schlueter@hs-ulm.de
Research field/project	What's happening with oil?
Maximum number of students, who could work on the project	1
Practical training / Bachelor Thesis / Master Thesis	Master Thesis
Compulsory Qualification of students	<ul style="list-style-type: none"> • good English skills • background in econometrics, statistics, or mathematics • programming skills are a benefit (if possible Matlab or R) • interest in energy-related topics
Date of stay (from-to)	not fixed / on demand
Description	<p>Recently, oil prices do look more like a rollercoaster than a proper price index. Nevertheless, there is still demand for a feasible oil price model (banks, energy companies, or governments rely on them), and the question is: Is it still possible to construct a model for the European Brent price or the U.S. WTI price index? Are there any recent suggestions? What is driving prices? A detailed analysis of potential influence factors might help.</p>
Further comments	Bachelor students and/or economics background possible as well – topic could be customized