

## Internship Program at Osnabrück University of Applied Sciences

### Description of lab or research project

	<b>Lab for Power Electronics</b>
<b>Head of the laboratory</b>	Prof. Dr. Hans-Jürgen Pfisterer Faculty of Engineering and Computer Science Albrechtstr. 30, D-49076 Osnabrück E-Mail: <a href="mailto:j.pfisterer@hs-osnabrueck.de">j.pfisterer@hs-osnabrueck.de</a> Phone.: +49 541 969-3615 <a href="http://www.kea-nds.de">www.kea-nds.de</a>
<b>Title of Project</b>	Research and Development in the areas of Power Electronics, Electrical Drives, Electronic Design, E-Mobility, Photovoltaic, Energy Storage, Energy Efficiency
<b>Abstract</b>	The Power Electronic Lab has superior lab equipment, which it applies in its research activities related to power electronics, electrical drives, e-mobility, photovoltaic, energy storage systems and energy efficiency. Direct industrial cooperation projects ensure the focus on practical engineering challenges. The lab has 20 employees, who mainly work on series development of power electronics. We have modern measurement systems and can test the efficiency of electrical drives system up to 75 kW.
<b>Tasks</b>	<ul style="list-style-type: none"><li>• Research Power Electronics</li><li>• Research Electrical Drive Systems</li><li>• Technology projects for industry</li><li>• Development projects for industry</li><li>• Test Center</li></ul> <p>We will make an individual agreement with the student, according to the student's desired research and work area. We will provide the student with a project description to ensure focused work on the research task. We provide an experienced engineer to assist the student with eve-</p>

	ryday questions.
<b>Requirements</b>	Basic knowledge of power electronics and electrical drive systems  We expect a highly motivated student.
<b>Language Skills</b>	English: fluent German: basic knowledge useful, but not required
<b>Duration and time period</b>	3 – 6 months in either the summer semester (March – August) or the winter semester (September – February) Specific dates and duration to be agreed upon
<b>Further information</b>	