



<b>Job Title:</b>	<b>Intern/Graduand: Semiconductor Assisted Load Tap Changers</b>
<b>Job Number:</b> (to fill in after posted online)	
<b>Business:</b>	GE Corporate – Global Research
<b>Lab:</b>	Renewable Energy & Power Systems Laboratory
<b>Cost Center:</b>	5297
<b>Location:</b>	Garching b. München, Germany
<b>Name of requester/ Hiring Manager (= student's supervisor):</b>	Thiwanka Wijekoon/Ara Panosyan
<b>The student will be employed as:</b>	<input checked="" type="checkbox"/> intern <input checked="" type="checkbox"/> graduand
<b>Career Band:</b>	
<b>Role Summary/Purpose:</b>	Goal of this work is to model, simulate, realize in the lab and test a MV solid state assisted mechanical switch for solving some of the voltage regulation issues in the grid, where current commutation is assisted by power electronic devices.
<b>Essential Responsibilities:</b>	As part of a team of research engineers, your specific responsibilities will include: <ul style="list-style-type: none"> <li>- Analysis, model and simulate power electronic components &amp; system</li> <li>- Analysis of electric system behavior including failure modes</li> <li>- Prototype lab realization and testing</li> <li>- Results documentation</li> </ul>
<b>Qualifications/Requirements:</b>	<ul style="list-style-type: none"> <li>- Experience with at least one circuit simulation tools such as PLECS, Saber, Simplorer,.. etc.</li> <li>- Good understanding of power electronic devices, power systems and electrical machines</li> <li>- Basic hands on experience with electrical machines and power electronics testing</li> <li>- good academic track record</li> <li>- Excellent communication skills</li> <li>- Can-do attitude</li> <li>- Open, creative &amp; flexible</li> <li>- Team-work &amp; commitment</li> <li>- Fluency in English</li> <li>- Currently enrolled at a university</li> </ul>
<b>Desired Characteristics:</b>	<ul style="list-style-type: none"> <li>- Basic German</li> </ul> <p>This position addresses students of all majors in Electrical Engineering and is suitable for an internship as well as a Master Thesis.</p>
<b>About us</b> (default for all postings and will be automatically posted online)	GE Global Research – Europe employs approximately 200 engineers and scientists from more than 30 different countries. Our scientists and technologists come from a variety of disciplines and backgrounds, including chemistry, physics, mathematics, engineering, sciences and materials research.



	<p>Located in the heart of southern Germany, Global Research – Europe sits on the Garching campus of the Technical University of Munich. This creates a unique blend for our scientists to be in a university setting, while performing research in a world-class industrial lab that is dedicated to bringing new technologies to market. The facility also operates closely with technology teams at GE businesses across the globe, ensuring effective transition of breakthrough innovations from the lab into advanced products and services. Within the R&amp;D community, the center maintains close partnerships with numerous universities, research institutions and technology companies in Germany and abroad.</p> <p>Current research at the facility focuses on automated manufacturing of composite parts, waste heat recovery for industrial and power applications, grid integration of renewable energies, molecular imaging for cancer diagnostics, high power electronics for stationary and mobile applications and advanced compressor technologies.</p>
<b>Desired start date?</b>	February/March 2014
<b>Posting at University?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
We will automatically post <b>online</b> at several job boards for free. <sup>1</sup>	<p>If yes: please state at which university and chair/ department student representatives (Fachschaft) the job (<b>hard copy</b>) should be posted:</p> <p>Name University:</p> <ul style="list-style-type: none"> <li>- TU Dresden – Prof. Bernet</li> <li>- University of Trieste – Prof. Tessarolo</li> <li>- TUM - ?</li> <li>- University of Nottingham, UK – Prof. Jon Clare, Prof. Pat Wheeler</li> <li>- RWTH Aachen – ISEA</li> <li>- TU Delft – Prof. Henk Polinder</li> <li>- ETH Zürich</li> <li>- University of Applied Sciences Munich</li> </ul>
<b>Contact:</b>	Should your e-mail address be displayed on job posting at universities? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>Add or Replace<sup>2</sup>:</b>	<input checked="" type="checkbox"/> Add <input type="checkbox"/> Replace
<b>Number of vacant positions:</b>	1
<b>Minimum working period in months?</b> (GEGR Minimum is 4 months!)	6 months
<b>Access to HireSystems (Brassring)</b>	Thiwanka Wijekoon Ara Panosyan

Posted online automatically:	Working student	Interns & graduands	Ph.D. positions
1 GE Careers & COS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 Monster.de/Jobpilot.de	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	fee € 140
3 Uni of Applied Sciences Munich	fee	<input checked="" type="checkbox"/>	not possible
4 TUM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5 Imperial College	fee	<input checked="" type="checkbox"/>	upon request
6 ETH Zürich	not possible	not possible	not possible
7 TU Delft	fee	fee	fee
8 RWTH Aachen	fee	fee	fee
9 I.A.E.S.T.E	not possible	<input checked="" type="checkbox"/>	not possible



GE imagination at work

<b>Access to HireSystems (Brassring)</b>	Please state who else needs access to the job posting in Hire Systems (Hiring/Lab Manager):
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