Faculty Position Opportunity
Pontificia Universidade Católica do Paraná – PUCPR
Mechanical Engineering Graduate Program - PPGEM
Curitiba, Brazil

This position covers special responsibility for teaching and developing research activities in the Area of Thermal Sciences and Engineering:

1) **Science and Technology in Transport Phenomena**: This area aims to develop and improve experimental, analytical, and numerical methods to solve fluid mechanics as well as heat and mass transfer problems. These problems are present in several knowledge areas, covering topics and applications in areas of engineering, such as mechanics, chemistry, biomedical, environmental, naval, aeronautics, and food.

2) **Energy and Thermal Engineering**: This area’s mission is to generate knowledge in thermal processes, energy efficiency, renewable energy, and cogeneration. Among several objectives, the development of mathematical models, computational codes, experimental techniques, and strategies for improving the energy performance of thermal systems including buildings, air conditioners, refrigerators, motors, compressors, and heat pumps should be highlighted.

**PUCPR**, established in 1959, is a private, non-profit catholic university (http://www.pucpr.br). The main campus locates in Curitiba, the capital city of the State of Paraná, Brazil. It is maintained by APC (Associação Paranaense de Cultura), which is an organization run by Marist Brothers. Curitiba campus was the first to be established and houses five academic schools: Polytechnic, Law, Medical, Humanities and Business School. The main buildings of the campus are the central library, which manages the integrated library system (ILS), research labs, classrooms and lecture hall, a 570-seat theater, a pilot plant, and a sports complex. There are more than 27,000 students in 60 undergraduate and over 150 postgraduate courses (latu sensu). Over 80% of the faculty owns a master’s or a doctoral degree. There are 22 graduate programs, at master’s and doctoral levels: Health Sciences, Law, Animal Science, Urban Management, Philosophy, Theology, Business Administration, Mechanical Engineering, Dental Health, Production Engineering, Education, Informatics and Health Technology.

**PPGEM** Mechanical Engineering Graduate Program started in 1999 (master’s) and 2006 (doctorate). The areas of concentration are well consolidated: Materials and Fabrication, Solid Mechanics and Thermal Sciences and Engineering. The research lines with governmental and industry fundings include: Materials properties characterization, Surface Engineering and Conventional and Non-Conventional Machining Technology; Computational Solid Mechanics, Vibration and Acoustics; Science and Technology in Transport Phenomena, and Energy and Thermal Engineering. Current numbers: 13 permanent faculty members, more than 200 master’s and doctorate theses completed and about 110 master’s and doctorate students enrolled. Our goal and practice are to contribute with the future through strategic and sustainable research in mechanical engineering. PPGEM holds grade 6 granted by CAPES - Coordination for the Improvement of Higher Level Personnel (grades from 3 to 7) after its last evaluation. It represents a highly consolidated Program. This Federal Agency rules all the Graduate Programs in Brazil and is subordinated to the Ministry of Education of Brazil.

**Curitiba** is the capital city of the state of Paraná. The city’s population is over 1.7 million people. Curitiba is a cultural, political, and economic center, and it has one of the highest HDI of Brazil at 0.856. In 2010, Curitiba was awarded the Globe Sustainable City Award, given to cities and municipalities which excel in sustainable urban development around the world. According to Reader’s Digest, Curitiba is the best "Brazilian Big City" in which to live. More details at: http://www.curitiba.pr.gov.br/

The **Candidate** must hold a doctorate degree in Mechanical Engineering, or in a related field, and be specialized in Thermal Sciences and Engineering. He or she should have authored articles, books and book chapters in high quality vehicles, should have experience in College or University teaching, and should have advised students at different levels of academic work. The candidate should also be part of research groups in Brazil and/or abroad, be fluent in English, have excellent communication skills, and the ability to team working. Further, it is desirable that the candidate have some international academic experience, and a Scopus h-index 7 or higher.

**Who are You?**
You be able to document extensive qualifications in the described disciplines. In addition, weight will be placed on ability to supervise and initiate research and development work. Pedagogical skills must also be documented. If you are not fully qualified the position may defined as a qualification fellowship for a certain time.

**Why should you apply?**
- Excellent and attractive working environment;
- High relevance and working challenges;
- Close cooperation with researchers in many fields;
- Advanced laboratories.

**Other practical issues:**
More information about the position, wages, and application process you should refer to: fred.amorim@pucpr.br or luis.moura@pucpr.br
Professorship Opportunity
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The PUCPR University (http://www.pucpr.br)