为什么在精密制造硕士项目上选择中国？
Why Master with China and in Precision Manufacturing?

背 景

随着中瑞双方工业发展的需要，其对精密制造技术人才的需求不断增长。为满足这种需求，我们的精密制造硕士专业因此孕育而生。精密制造硕士项目是瑞士联邦政府职业教育与技术办公室与中国广东省科学技术厅科教合作备忘录的一部分。

去年，上海 Swissnex(上海瑞士领事馆为整个中国地区专设的科学、技术及教育办事处，) 前往广东省访问数次，与中山大学、华南理工大学、广东工业大学和广东外语外贸大学进行了会谈。

同时，瑞士驻广州总领事馆也为本硕士项目访问企业、大学和负责教研的政府部门提供了很多帮助。

目 标

精密制造硕士专业的教育目标是塑造新型职业人才。通过一流的融研究与教育与一体的培训体系，使学生不仅具有研发能力、操作技能，同时也了解中国市场特点以及瑞士高科技精密制造技术。

2008 年学生参观东莞华泽兴塑胶电子有限公司，他们的精密注塑产品让学生们大开眼界。
Visit Dongguan GW Plastics Co.Ltd.to open students' eyes on precisionplastic injection products(2008).

特 色

1. **教研一体** 精密制造硕士专业注重各方面的均衡发展，不仅提升个人的专业技能，充分发掘他们的能力，而且培养他们的创造力、管理水平和处事态度。在课程设置上充分注重工业界的建议与研发需求，并通过与硕士生的工业资助伙伴共同安排来实现。因此，学生将会积极参与到技术研究和技术转移中并通过毕业论文来反映其成果。整合研究和教育于一体是该课程重要的、具有核心意义的元素。

2. **学费优惠** 由于该项目是政府间的合作项目，因此瑞士联邦政府对学费进行了大幅减免，比其它自费留学学费至少降低了 65% 以上。

3. **就业无忧** 教研一体的模式为学生提供了广泛接触工业界、研究机构的机会，毕业论文是最终体现这种教研结合的成果。这为学生今后成功的职业生涯打下良好的基础，找到潜在的雇主。潜在雇主类型多样，选择广泛：大型跨国公司，涉及制造、机械、自动化控制、能源技术、机器人以及流程工程等领域；中小型高科技企业；世界各地的技术咨询公司等等。之前的雇主，主要为资助研究生项目的瑞士公司。一般来讲，多为那些对远东国家制造业感兴趣的瑞士公司。行业主要涉及机械加工技术、传感器和控制系统，以及其它制造和机械工业。雇主还有很多为中国公司。这些公司多数有着浓厚的兴趣引进瑞士精密制造技术以及机器。他们需要合格的高级人才，可以胜任工作，使得引进的瑞士设备可以高效工作运转。

Background

The Master Program in Precision Manufacturing (MPM) is a concrete answer to the growing need, expressed by Swiss and Chinese industries, of professional figures meant to handle precision manufacturing evolution and growth. The MPM fosters and promotes the strategic goal of international collaboration between Switzerland and China, which is part of the Memorandum of Understanding signed by the Swiss Federal Government Office for Professional Education and Technology and Guangdong Provincial Science and Technology Department.

During the last year the swissnex-Shanghai, the outpost for Science, Technology and Education of the Swiss General Consulate of Shanghai but responsible for the whole China, has made several visits to the Guangdong Province holding talks with major universities like Sun-Yat Sen University (SYSU), South China University of Technology (SCUT), Guangdong University of Technology (GDUT) and Guangdong University of Foreign Studies (GDUFS).

Also the Swiss General Consulate of Guangzhou has helped to open several doors in company visits, universities and government departments responsible for education and research.

Objectives

The MPM educational goal is to shape new professional figures characterized by research and operate skills and capable to understand the Chinese market peculiarities as well as the Swiss high tech precision manufacturing technologies, through an effective training path constantly merging research and education.

Characteristics

1. **Integration of research and education.** The MPM is based on a prominent and well balanced set of lectures that not only promote individual professional skills and cultivate their ability but also their creativity, management level and shape attitude. The lectures are planned taking into account suggestions/needs from the industries and arranged in cooperation with industrial sponsors of the master. Students also become actively involved in research and technology transfer, and will be an active part of student-centered industrial research activities during their master thesis. The MPM points at the integration of research and education as a critical and defining element of the master itself.

2. **A preferential tuition fee.** The fees are low due to the cooperation between the Chinese and Swiss governments on this project. The tuition fees are reduced at least 65%.

3. **Good accesses to employment.** The integration of research and education provides students good accesses to industrials and research institutions, which presents the graduation thesis as a final achievement. This lays the basis for the students' future career and helps the students to find potential employers. Potential employers are various and range from large international companies in manufacturing, machinery, automation control, energy technologies, robotics and process engineering industries to high-tech SMEs and technical consulting companies worldwide. Prior are employers Swiss companies sponsoring the Master's program (and in general, all Swiss companies interested in manufacturing in far eastern countries), especially from machining technologies, sensors and control systems and other manufacturing and mechanical industries. Chinese companies as well are interested to acquire Swiss precision manufacturing technologies and machines. They will be in need of highly qualified people in order to use in an efficient way the acquired Swiss equipment.