CALL FOR APPLICATION

PhD Scholarship - Industrial Postgraduate Programme (IPP)

Industry: PRECISION ENGINEERING
Company: KLA-Tencor Singapore Pte Ltd
www.kla-tencor.com
Contact: NTU Faculty: Assoc. Prof. Qian Kemao
Industry Contact: Jane Lum (HR)
Email: MKMQian@ntu.edu.sg
Jane.Lum@kla-tencor.com

Company Profile: KLA-Tencor Corporation, a leading provider of process control and yield management solutions, partners with customers around the world to develop state-of-the-art inspection and metrology technologies. These technologies serve the semiconductor and other related nanoelectronics industries. With a portfolio of industry standard products and a team of world-class engineers and scientists, the company has created superior solutions for its customers for 40 years.

KLA-Tencor is headquartered in Milpitas, Calif, and is traded on the Nasdaq under the symbol KLAC. The company was selected as part of the S&P500 Index since September 1997.

Key Market Segments:
- Chip Manufacturing
- Wafer Manufacturing
- Reticle and Blank Manufacturing
- Advanced Packaging Manufacturing
- Compound Semiconductor Manufacturing
- LED, MEMS and Power Device Manufacturing
- Data Storage and Media/Head Manufacturing
- General Purpose and Lab Applications
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**IPP Project:**
- **Surface geometry metrology system for wafers with patterning and transparent film**

**Scope of research work:**
The research work will be related to optical interferometer technology for wafer surface geometry metrology. The goal of this research work is to develop a solution for measuring wafer surface with metal/dielectric patterning and transparent film. The candidate will be working on system design/modelling, prototyping, characterization, and data analysis.

**Support provided:**
- Full sponsorship for PhD studies under the EDB-IPP scheme with the company;
- Company provides and drives industry project with student through close supervision by academic partner;
- Monthly salary and CPF contributions pegged at prevailing employer’s contribution rate;
- Other terms and conditions are subjected to offer details provided by the company upon confirmation.

**Requirements:**
- Singapore Citizens / PRs Only;
- Jointly selected by Company and University;
- Eligible for PhD studies with a good Bachelor degree (at least 2nd Upper Honours) or Master degree in Physics, Optics, Electronics, Mechanical, or related engineering fields;
- Self-motivated, able to plan and work independently;
- Combination of theoretical strength, practical hands-on skills, and system level thinking;
- Strong written and verbal communications skills.

Interested applicants please send your CV including education transcripts, research experience to Ms Jane, jane.lum@kla-tencor.com