
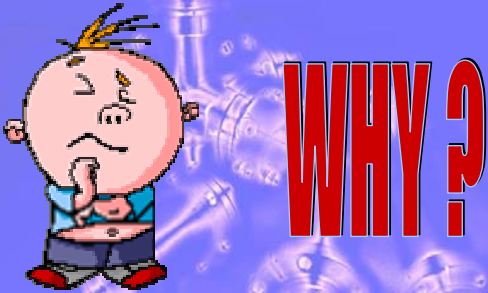


*Introduction to Salford University M.Sc. Course,  
Richard Pilkington, University of Salford*



**MSC VACUUM  
ENGINEERING &  
APPLICATIONS**  
*Joule Physics Laboratory  
School of Computing Science & Engineering*

**The only formal qualification  
in Vacuum Engineering in  
the U.K., Europe and we  
believe the world.**



**WHY?**

**The hidden technology that  
underpins our lives**

 <i>Science &amp; Technology</i>	 <i>Chemical Industry</i>	 <i>Environmental Technology</i>	 <i>Pharmaceutical Industry</i>	 <i>Textile Industry</i>
 <i>Environmental Technology</i>	 <i>Beverage Industry</i>	 <i>Brickmaking &amp; Ceramics</i>	 <i>Semiconductor Industry</i>	 <i>Optical Coating Industry</i>
 <i>Water &amp; Waste Water</i>	 <i>Dairy Industry</i>	 <i>Agriculture</i>	 <i>Timber Industry</i>	 <i>Plastics Industry</i>

**There is a world shortage of  
trained vacuum engineers.**

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trained vacuum engineers.**

**To address this short-fall we  
decided to start a one-year  
course, leading to the award of  
an MSc or Diploma in Vacuum  
Engineering and Applications.**

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**In 2000 - Awarded £535,000 by EPSRC under the Masters Training Programme initiative (MTP) to fund the setting up of the Vacuum MSc**

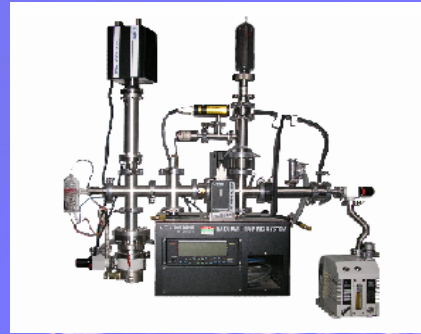
**Initial industrial support came from:**

**MKS Instruments**

**Varian Vacuum**

**Leybold**

**+++**



**MKS Vacuum Training Rig**



**Vacuum Training Laboratory**

**We attract students from a wide variety of backgrounds:**

- Chemistry
- Physics
- Aeronautical Engineering
- Mechanical Engineering
- Production Engineering
- Acoustics
- Petrochemical
- +Industrial

**Since 2000 we have trained over 50 vacuum engineers who have gone on to work in vacuum & related industries or have registered as PhD students.**

**We would like to thank the following organisations for their on-going support:**

- ✓ Busch
- ✓ CCLRC: RAL + Daresbury
- ✓ EPSRC
- ✓ Hardide
- ✓ Leybold
- ✓ MKS Instruments + MKS Spectra
- ✓ Varian Vacuum
- ✓ VG Scienta
- ✓ VRS