

Hiden Analytical Ltd



Company profile

Hidden Analytical Ltd

- Company headquarters based in 23,000sqft factory in Warrington, England
- Privately owned
- 70 employees work out of headquarters
- 30 years in business
- US subsidiary, Hidden Analytical Inc, main office Michigan
- Office in Beijing, China
- Lifetime e-mail, telephone support with our systems

Hidden Analytical Instruments are used in many countries worldwide



Hidden Analytical Mass Spectrometers

- Gas Analysis
- Surface Science
- Plasma Diagnostics
- Vacuum Analysis

Gas Analysis

- Dynamic measurement of reaction gas streams (atmospheric sampling mass spectrometers)
- Molecular beam studies (HPR-60 systems)
- Dissolved species probes (HPR-40 MIMS)



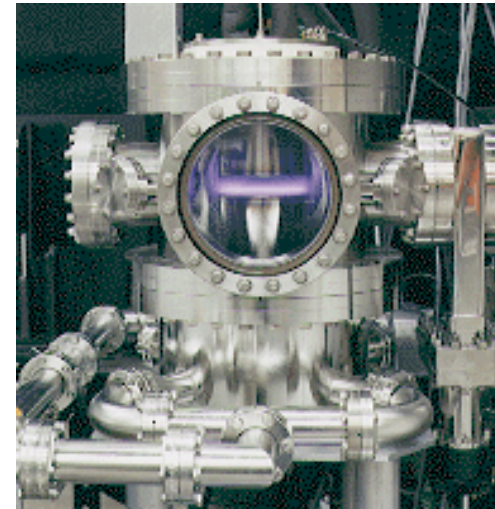
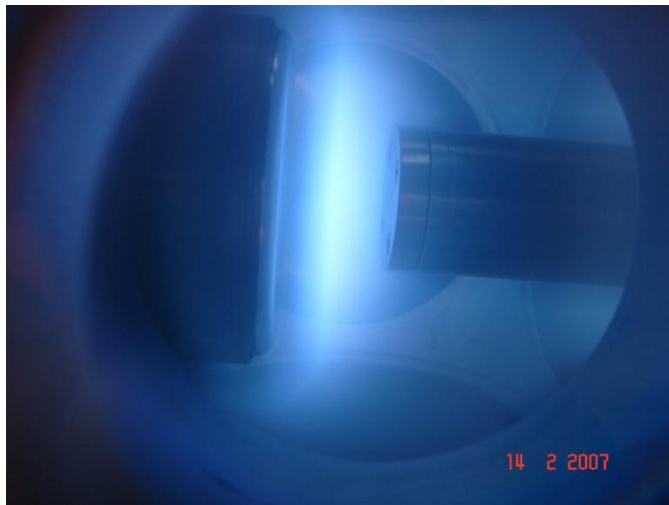
Surface Science

- UHV TPD (TPD workstation)
- SIMS (Sims on a flange , Sims workstation)
- End point detection for ion beam etch (Ion Milling Probes)
- elemental imaging – surface mapping (ESM - SIMS imaging software)



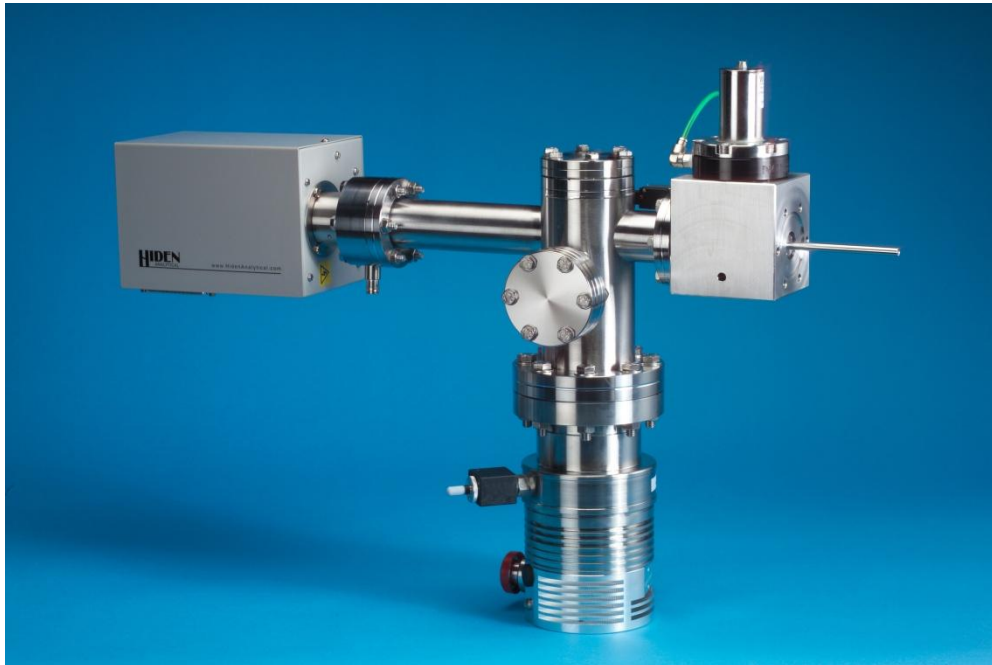
Plasma Diagnostics

- Plasma source characterisation (Atmospheric plasmas – HPR-60 system)
- Etch and Deposition process reaction kinetic studies (EQP – mass energy analysers)
- Analysis of neutral and radical species (EQP, PSM probes)



Vacuum Diagnostics

- partial pressure measurement and control of process gases (HPR-30 process gas analyser)
- Reactive sputter process control (HPR-30 Process gas analyser)
- Vacuum diagnostics (HPR-30 process and RGA gas analyser)
- Vacuum coating process monitoring (HPR-30 system)



Application areas

- Biotech industry (Fermentation monitoring)
- Fuel cell research
- Exhaust gas emission studies
- Semiconductor industry (etch monitoring)
- Materials analysis
- Aerospace industry
- Nuclear fuel industry
- Fusion Power industry
- Solar industry
- Space research
- Atmospheric plasma devices
- Plasma coating industry



Recent Hiden Customers

- BNFL (Nuclear)
- AWE (Nuclear)
- Motorola (Semiconductor)
- Seagate (Semiconductor)
- IBM (Semiconductor)
- Samsung (Semiconductor)
- BAE (Aerospace)
- Rolls Royce (Automotive)
- Nissan (Automotive)
- NASA (Aerospace)
- Los Almos National Labs
- OSRAM
- UKAEA (Fusion Energy)

Student Placement Job Description – SIMS

Secondary Ion Mass Spectrometry is a highly sensitive surface and near surface analysis technique in which the sample is bombarded, in ultra high vacuum, with [primary] ions and ejected secondary ions, characteristic of the material, are analysed by mass spectrometry. The technique is widely used within the semiconductor industry and is also applied to a wide range of materials and life science problems. The Hiden SIMS WorkStation is a flexible SIMS instrument aimed at the inorganic materials analysis market including glass coatings, hard protective layers, metallurgy, semiconductors and solar cells.

Hiden build both the spectrometers and ion guns and also maintain a demonstration instrument at the factory site in Warrington, UK. The student would be trained to operate this tool with the aim of producing application notes and analysing samples from potential customers. There will also be opportunities to work within the production environment, testing new systems and subsystems.

Contact Details

In relation to the industrial placements at Hiden Analytical please use the contact details below for further information or suggestions:

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