

Pathology

The role of the Biomedical Scientists

What is Biomedical Science ?

- All samples taken by a Doctor or Nurse are analysed by a Biomedical Scientist
- Without Biomedical Scientists, Doctors would not be able to diagnose diseases properly or treat patients effectively.

Biomedical Science is
divided into many
laboratory disciplines.

Medical Microbiology

- As a Biomedical Scientist in microbiology you will study micro-organisms such as bacteria, fungi and parasites which cause disease
- You will identify these organisms and establish the antibiotic treatment required to kill them therefore stopping the disease.

- Diseases diagnosed include meningitis, tuberculosis and food poisoning.

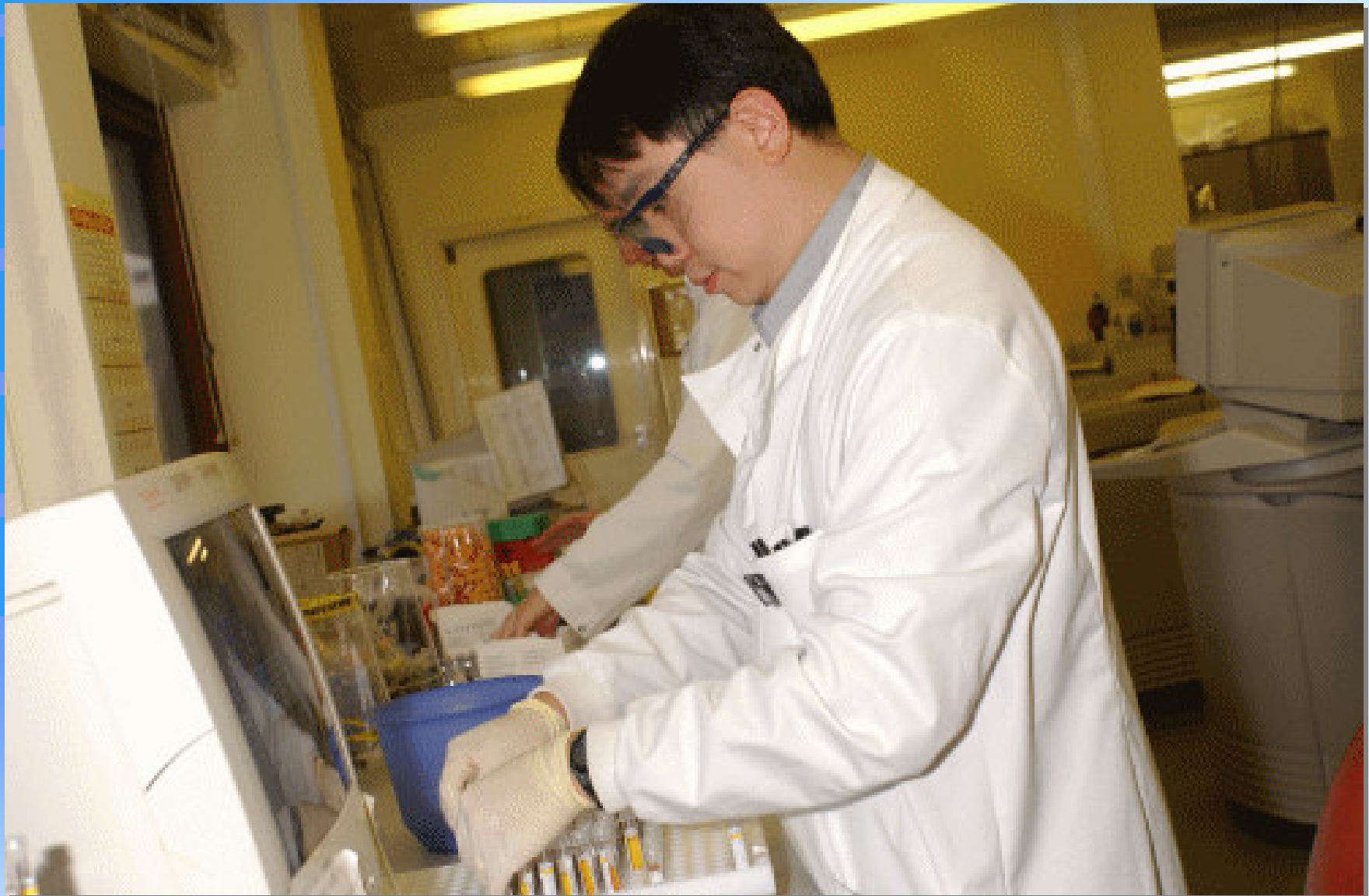




Clinical Chemistry

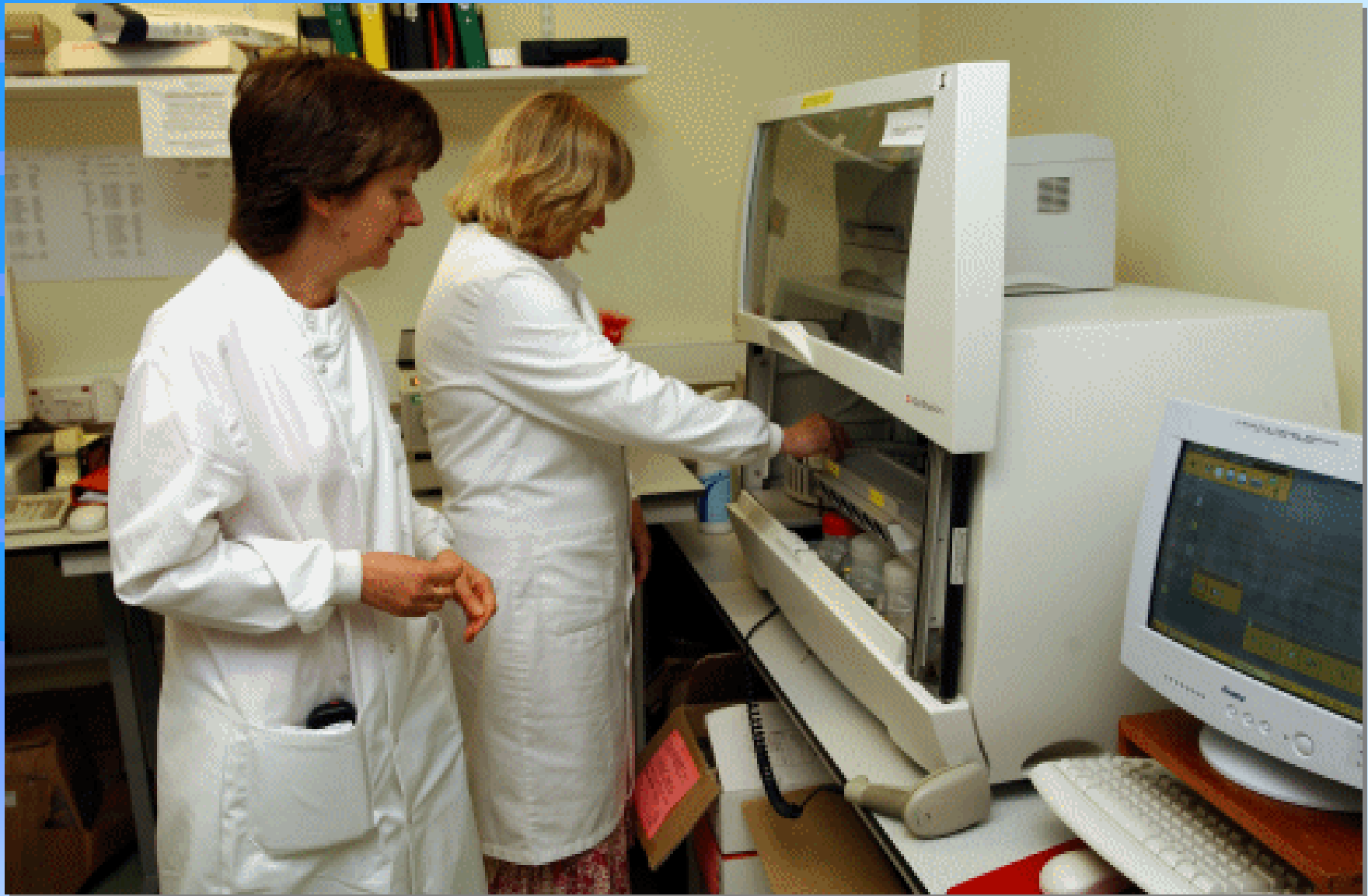
- Biomedical Scientists analyse blood and other biological materials to help the diagnosis of disease e.g. diabetes.
- They also carry out toxicological studies, test kidney and liver functions and help to monitor therapies.





Transfusion Science

- Biomedical Scientists identify blood groups for blood donation and ensure the correct group blood is matched to the patient due to receive the donation.
- They also make sure there is enough blood available in case of emergency such as road traffic accidents and operations.





Haematology

- Haematology is the study of blood.
- This discipline is concerned with the formation, composition, function and diseases of the blood.
- Some of the diseases diagnosed in haematology are leukaemia, malaria and anaemia.





Histology

- In Histology tissue samples are studied microscopically to establish the cause of illness.
- Tissue may be taken during surgery or at post mortem.
- Diseases such as cancer are diagnosed by looking for abnormal features in tissue cells.





Cytology

- This discipline is best known for its work screening cervical smears, but it also provides a non-gynaecological service.
- Like Histology, specialised techniques are used to prepare and study samples of cellular material.





Career opportunities

- Since Biomedical Science is continually changing and is such a dynamic profession, it offers a fantastic variety of exciting career opportunities with excellent promotion prospects including specialist laboratory work, research, education and management.



Biomedical Scientists

- At Ashford & St. Peter's Hospital
- State registered salary range £19,025 – 53,556
- After 1 year, typical salary for Haematology & Biochemistry dept staff ~£30 – 33K
- Continuing Professional Development supported and encouraged (MSc, MBA, etc)

Further information

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www.ibms.org

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