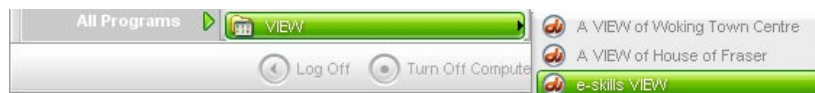


Start e-skills VIEW
 Choose 'Gathering evidence'
 Choose 'Gathering evidence 1'



Now choose the employer:

Eli Lilly



Like many organisations, you will find an 'operations' area in which the core of the business is seen to be at work. In Lilly's case this is the laboratory area.

Use the link to the Laboratory corridor. Check the map carefully to see where in the corridor you have arrived.

There are 15 labs in this corridor that you can enter and look around. Most provide evidence of the use of IT by scientists, technicians and others.

In Lab 1 find the larger of the two 'NMR machines'. Look at the image sequence to see that this complex piece of equipment, is controlled by a computer.

1. What two functions does the computer serve for the NMR machine?

In Lab 2 you can see a PDA controlling some scientific equipment.

2. What advantages do you think that they might be in using such small devices and what disadvantages might there be?
3. In lab 4 you will find computational chemists using computers. Click on each of the screens to hear Michael explain how the computer helps him with his work.
4. How does the computer help Michael ?

In Lab 6 checkout the bar code reading and weighing machines.

5. What is the bar code used for?
6. What benefit does the automatic weighing machine offer the scientist?

In Lab 8 bar codes are used again to manage samples.

7. Apart from reading a bar code what other function is the computer performing?

In Lab 11 you will find an image sequence showing how a scientist involved in a process called 'cell plating'. Alongside this you can see a robot being programmed to do similar work.

8. What advantages does the robot have over the scientist in cell plating? What might be the disadvantages?

In Lab 12 the scientist is using a computer to record changes in data that occur very quickly.

9. How fast is the computer able to record the data as it changes and what does it do with the data?

In Lab 13 the computer is connected to a microscope and is recording a digital image of a very fast reaction. You can look at the short movie.

10. What advantage is there to viewing an image on a computer rather than directly through the microscope?

Click the 'ge 1' (Gathering evidence 1) button to the left of the map in the bottom right hand corner and you will return to the Gathering evidence 1 list of employers.