Laboratory Equipment - Four Fantastic Tools World Labs by Todd Viscometer

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Technology is a wonderful thing. Very few areas showing the most modern technology to the laboratory. Labs is not just a house, some of the most advanced technology, but they also give birth to a lot. It's not like your high school chemistry class. State of art labs usually have the equipment that costs tens of millions of dollars. Here are five super (though not necessarily common) and advanced laboratory tools seem existence today.

Particle accelerators: This is where science fiction meets science fact. Indeed, a recent experiment on neutrinos travel faster than light was carried out with the particle accelerator at CERN (European Organization for Nuclear Research). This (now just discarded) experiment would be to drop everything to know about modern physics in the fall. Particle accelerators operate by sending the smallest particles of very high speed through the magnetic waves. Although the CERN experiment is very much a question on recent data, timing errors, just the fact that neutrinos traveling the speed of light, it must be considered close enough that it still has an amazing event.

Nanoscope microspheres: Remember looking skin cells under a microscope in biology class? Usually the school microscopes measure things in millimeters. Now, I feel a million times smaller than the object: what the microspheres nanoscope means. In fact, it extends the objects so small that they can not even be seen through the lens of the camera - the image must actually be routed through the computer and displayed on the screen. This technology limits have not even been determined.

Ultra Centrifuge: Again, this is much different from the one that you remember your science class device. However, the main goal remains the same - separate their solid (solvent) from your liquid (solution). What is amazing, almost 100 years of centrifuges, the main tenant remains the same: to spin it. Now, as it is spun became better. The higher the speed, the more effective the faster the device and it works. Less friction in centrifuge, produces, the higher the speed, it can be effectively achieved. Ultracentrifuge can reach speeds of 120,000 revolutions per minute or more than 40 times faster than one of his high school science class.

Lasers: They have been around for many decades now and has made numerous appearances sci-fi movies, but most people do not understand all the possibilities of lasers. Lasers have new uses, are often a number of practical purposes. Benevolent kingdom, they found an important role in modern medicine - even going so far, to perform the operation. Light rays are so precise that they can make small pieces of the human surgeon would not do it.

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Less well-meant remarks, lasers, used as directed energy weapons is approaching the case of science fiction science fact. Soon, these devices will be able to make small targets from space - only the question of economic efficiency and political consequences in relation to ground handling.

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