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Clean rooms are rooms that are used for a range of activities that require there to be absolutely no contaminants in the atmosphere. These will be rated by the number of particles that are likely to be in the room at any given time and this will mean you can work knowing that your results and your processes will be affected as little as possible by the environment.

You might think that a regular room is free of dust and dirt after a good clean, but you would be very wrong about that. In any normal room there will be billions of tiny particles only a few microns in diameter that exist in the atmosphere and that you breath in. These include specks of dirt and mud that have been walked into the room on people's shoes, tiny particles of skin and scalp that we shed on a daily basis, tiny hairs and even bits of hairs, little specks of food, saliva, allergens like pollen that have come in through the window, bits of dust that has become unsettled from shelves etc., tiny insects, bacteria and germs and even the droppings of those tiny insects â€“ and that's only really the tip of the iceberg when it comes to the kinds of things that exist in your average room.

For anyone this can be an off putting and unpleasant thought, but it isn't going to be a particular problem as it is unlikely to affect us enough to damage our health or irritate us in any serious way. However if you are conducting a scientific experiment on the other hand then this can be a serious issue. A tiny piece of skin for instance is mildly acidic and if it were to get into a chemical mixture then it could affect it and change the outcome. Meanwhile if you were working in biology looking at bacteria and amoeba under a microscrope, or even gently trying to affect the DNA of piece of tissue on a slide, then having a tiny piece of dust in it or bacteria could cause any number of problems â€“ if you think about it those pieces of dust might be bigger even than what you were working with. Even something less scientific but nevertheless precise â€“ like working with certain materials â€“ can require a clear atmosphere.

Clean rooms use all kinds of things to improve the cleanliness of the atmosphere. They will for instance use filters to clean the air and to remove particles that are over a certain diameter thick, and they will use sticky mats that collect all the loose mud and dirt off of people's shoes as they enter the room. Of antibacterial products will also be used to clean the air.

If you need a clean room for your project, study or business, then there is no reason not to get one second hand. As long as all the features of the room work, or you can replace them, this will be no different to getting one first hand and you won't even need to worry about it not looking shiny and new â€“ as there will be barely a particle left over from the people who used it before.

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There are many uses for professional a cleanroom, but they can be expensive. One option is to buy second hand a clean rooms that suit our purpose.

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