Sign a research consent form--the consent form gives legal permission to participate in the project and also verifies that you understand the study procedures. Such a form is required in all scientific research in which people are studied.

View a 10 minute video -- the video explains the counting process step by step.

Change into a special garment-of all sizes and a private changing area with lockers for your clothing and valuables are available.

Have your height and weight recorded--these measurements enable scientists to estimate the thickness of your chest wall for calibration purposes.

Lie Down and Be Counted--inside the counting room, you'll recline on a bed. Detectors are located above and below the bed. It requires about 30 minutes for the measurements to be made. During that time you can relax, nap, or listen to your favorite music.

Check Out--once the measurements are completed, you may change back into your own clothes and a scientist will explain the results.

Scientific research continues to improve the quality of our lives--contributing to our comfort and convenience, our safety, our health, and our happiness.

Citizen volunteers are vital to the research behind many of the technological advances that we count on today. Our lives have been *enriched*--and in many cases *prolonged*--by their willingness to serve. In addition to the study of disease and its treatment, more and more people today are joining studies to help *prevent* disease and to make our homes and industries safer and healthier places in which to live and work. Every *year* an estimated half-million people become research volunteers in controlled studies. You have a unique opportunity to be part of this special group of individuals in your local community.



Can we count on you?

To schedule an appointment, or for more information on the program, please call Internal Dosimetry (575) 234-5530.



A Division of the College of Engineering

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Lie Down and Be ...

O U N T E



Lie Down and Be Counted Internal Dosimetry Services Project

http://cemrc.org/depts/id.html

We need your help!

Believe it or not, behind the marvels and modern miracles of science are American citizens just like you. Many of the advances discovered by scientific researchers would not have been possible without the help of citizen research volunteers--dedicated individuals who gave their time to further the pursuit of knowledge.

Researchers at the Carlsbad Environmental Monitoring & Research Center need your assistance. They are studying

- soil
- air
- water
- native plants
- and animals

in the region around the Waste Isolation Pilot Plant (WIPP).

This information will allow scientists to study both naturally occurring and man-made radiation present in the area. Sensitive monitoring equipment provides information about changes in radioactivity near the WIPP site. The baseline data collected prior to the opening of the facility will provide information for studies in the future. As more information is collected over the years, a detailed picture will emerge of environmental radiation in the Carlsbad area.

To *complete* this broad, comprehensive picture, scientists at the Carlsbad Environmental Monitoring & Research Center also have developed a research project

to measure the internal radiation in the area's residents. Called *internal dosimetry*, this research process uses sensitive counters to measure the tiny amounts of radioactive material typically found inside the human body.

The citizens of Carlsbad and the surrounding region have a unique opportunity to be part of a long-term research project that will yield information about their environment and will contribute to the growing body of knowledge about radiation and nuclear energy. *Lie Down and Be Counted* is the name of the outreach effort to get citizens involved in the Internal Dosimetry Services Project at the Carlsbad Environmental Monitoring & Research Center.



By participating, you also will be helping scientists develop better, more sensitive monitoring equipment to protect those who work in the nuclear industries. The project also may lead to improvements in the myriad of medical procedures that use radioactive isotopes and other types of radiation.

There are tiny amounts of radioactive materials inside each of our bodies that are natural or that have accumulated through other means. For example, a fraction of all potassium found in our muscles is naturally radioactive.

We also come in contact with radioactive elements in nature and some radioactive elements that are man-made. Sources of radioactive material found in nature include minerals, oil, and gases. The man-made elements are primarily the result of aboveground nuclear tests conducted in the past by many countries world-wide or those administered for medical purposes. Scientists estimate that 87 percent of our exposure to radiation comes from *natural* sources.

The Internal Dosimetry Services Project is safe. No radiation is given off by the dosimetry instruments. It is similar to the studies conducted for the safety of workers in nuclear weapons facilities, power plants, and in other industries that employ radioactive materials.

How difficult is the job of a research volunteer? You decide!

There are 7 steps that you'll be asked to follow:

answering questions about your lifestyle and work habits, researchers will be able to more readily pinpoint the source of any radiation detected by the body counters. For example, have you ever worked in a nuclear power plant or weapons facility? (Note: Your answers to these questions will remain confidential. Information from the questionnaire will be used only for purposes of the Internal Dosimetry Project!