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"T-rays pass through things like food packaging, clothing, plastic and

said in a statement on Tuesday.

cardboard enabling us to analyse what is inside.

"This means they can be used to detect and identify weapons of metal or plastic, illicit drugs or biological hazards like anthrax, even if they were hermetically sealed.

Low energy

Abbott continued: "You can find out much more about the substance than you would with optical, infrared or x-ray imaging, and this helps to identify it precisely."

Because T-rays are low energy, they are also safe to use around people, unlike X-rays.

He added: "One of the most important recent discoveries is that T-rays can also be used to detect cancer. Australia is part of the big scientific race to find out why."

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Derek Abbott, Adelaide University

Scientists believe that due to their low penetrating power of the human body, T-rays would probably be used to scan the outer skin or, on endoscopes, to scan the bowel and other organs for early signs of cancer.

Abbott said the potential applications of T-rays are huge, from food safety and quality monitoring, to disease detection, airport security, postal scans for drugs, explosives or bio-weapons, military threat detection and medical diagnosis.

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