**SAIP2019** 



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## Determining the Radon Emanation Coefficient for soil sample.

Radon and radon decay products have been known to cause lung cancer in humans, and hence a national survey to measure radon levels in houses in

South Africa is underway. This study is a preliminary to the national survey to be conducted and it aims to determine the radon emanation coefficient for soil samples. The radon emanation coefficient is important for predicting the radon levels in the houses. The areas of interest in this study are (Paarl and Boksburg) where high radon levels are expected and the soil samples have been collected and will be analysed in the laboratory. Measurement techniques including both alpha and gamma spectrometry will be utilized for determining the activity of the soil samples in order to determine the radon emanation coefficient.

## Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

Yes

## Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD, N/A)?

MSc

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