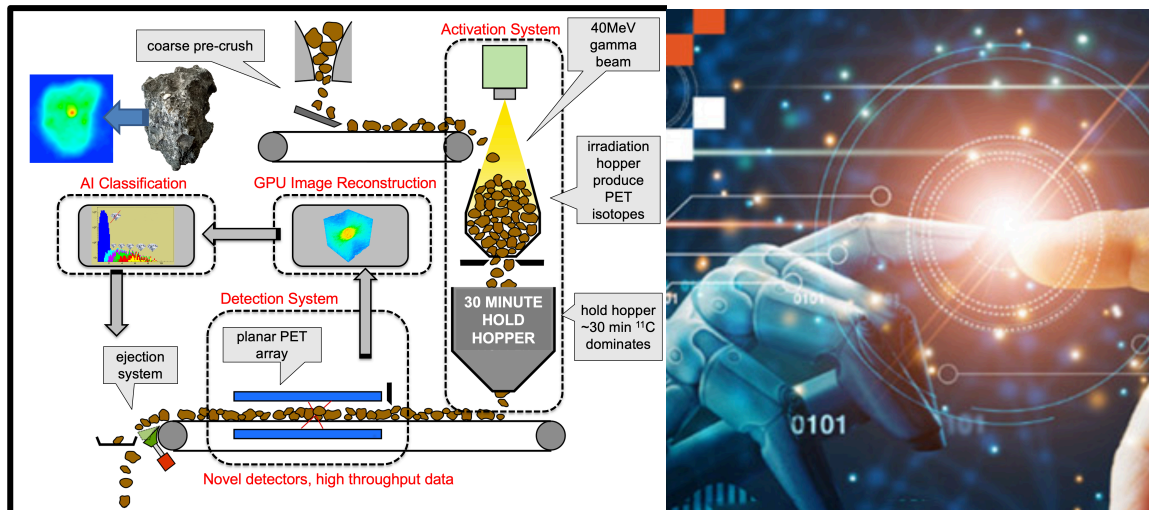


## Post Doc, PhD, MSc positions in (Applied) Nuclear and Particle Physics, Engineering, Computation and Innovation.



The Mechanical Engineering Science Department of the UNIVERSITY OF JOHANNESBURG seeks to appoint 2 x Post Doc, 3 x PhD, 3 x MSc positions at its Auckland Park Kingsway Campus. The positions are open to science and engineering applicants with skills and interests in the fields of nuclear and particle physics, engineering, high performance computing and simulation, modern sensors and electronics, accelerators, big data analytics and AI. The Research is interdisciplinary and involves the further development of the MinPET Technology and all related innovations. MinPET is the green, modern, 4IR sensor-based sorting of diamondiferous from barren kimberlite on-line at run-of-mine rates. It combines the technologies from the fields mentioned. There are also opportunities beyond mining, including medicine, energy, waste and homeland security. Expertise in any of the fields mentioned and a willingness to learn rapidly and innovate in the context of a large well-resourced team is required. The duration of the Post Doc funding is up to three years but renewable annually based on mutual agreement. The duration of the postgraduate study support is the typical median degree duration. The starting date is Jan 2023.

Applications are welcomed.

Please send your CV and two reference letters to the address below

**Requirements:** Post Doc - A completed PhD degree in Engineering or Physics. Post graduate study - A completed qualifying degree in Engineering or Physics. Computational aptitude / competency is advised. The review of applications will begin immediately and continue until the position is filled.

**Enquiries:** Prof SH Connell, mail: [shconnell@uj.ac.za](mailto:shconnell@uj.ac.za)

Web sites <http://www.uj.ac.za>, <https://panip.febe.uj.ac.za>, <http://minpet.co.za>