Contribution ID: **520** Type: **Poster Presentation**

Mapping Career Landscapes for Physics Students: A Comparative Overview of the Space Science and Quantum Technology Industries

This paper presents an exploratory comparison of the Space Science and
Quantum Technology industries, focusing on their relevance to physics students in South Africa. Using publicly available data such as job listings, career portals, registered business records, industry reports, and economic data - the study offers a snapshot of the opportunities, visibility, and accessibility of these sectors for emerging graduates.
While global trends are considered, the emphasis is on understanding the South African context. The comparison is intended to highlight potential career paths and also provide a lens through which to evaluate the relative technological and industrial maturity of the Space and Quantum sectors (both locally and internationally). The purpose of the study is to provide practical insight and generate awareness among students, educators, and stakeholders about emerging industries and the role of physics graduates within systems of innovation.

Apply for student award at which level:

None

Consent on use of personal information: Abstract Submission

Yes, I ACCEPT

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Session Classification: Physics for Development, Education and Outreach

Track Classification: Track E - Physics for Development, Education and Outreach