

the Naledi3d Factory

Rand Water Academy—Building Visualisation (2012)

Purpose:

Rand Water has created a new training facility, the “**Rand Water Academy**”, with the support of the SA National Treasury. The Academy focuses on graduate training, skills development and experiential exposure to water treatment / processes; and will also address management skills related to the SA water processing and treatment industry.



Partner:
Rand Water



In a Nutshell:

3D was harnessed to visualize the overall concept for internal and external stakeholders, showing its main features and how the Academy building may look. The building has two distinct areas:

- A training and administration wing
- A technical wing—addressing both water and sewage treatment.

Training & Technical Wings:

Housed in a bespoke, glass-fronted building, it encompasses renewable energy and smart building principles. The **Training wing** includes a 150-seat auditorium, twelve training rooms, a library and e-learning centre, as well as a virtual reality training facility. The **Technical wing** houses the water process simulation zones—covering water processing, filtration and waste water treatment; a workshop area with pump, valve, pipe and valve operations, two laboratories and a process control room overlooking the main floor.



The approach:

3D was used in two ways to show the new building:

1. An animated tour of the building’s main features and facilities—as a high-impact, two minute, annotated video
2. An interactive VR simulation, allowing the user a free choice to go to, and to show any part of the building.

