

RAPDASA

RAPID PRODUCT DEVELOPMENT ASSOCIATION OF SOUTH AFRICA

The 3D Print Design Competition is a national competition which forms part of the annual Rapid Product Development Association of South Africa (RAPDASA) conference. The competition is aimed at encouraging designers, entrepreneurs, engineers & artists to use the latest technology to promote awareness of Additive Manufacturing (AM) and attempts to gauge the country's capability to design and engineer for AM.

With the industrialization of AM in mind, the 2021 design competition looks to break away from the norm by doing away with specific categories. Given that AM allows for the manufacture of greatly complex geometries, entrants will be given a component and challenged to re-design it specifically to be manufactured using AM techniques.

Judging Criteria

All entries will be judged according to a score card MATRIX and points will be awarded against each of the following criteria:

- Novelty
- Inventiveness
- Functionality
- Aesthetic appeal
- Engineering principles
- 3D Printing knowledge
- 3D Printability
- Creativity

Designs may incorporate multiple components. Designs may also be made up of components which require post processing and assembly afterwards.

In the event of a draw, points will be awarded to the quality of the presentation and supportive documentation.

General Considerations:

When designing it is important to take into account the material which will be used to print your design, as well as the limitations of the AM process. Factors such as structural integrity and durability affect how well a design is able to function, while efficient use of material must be considered to reduce costs and to avoid over-designed components.

Entries to be submitted to: competition@rapdasa.org

CLOSING DATE
Midnight 10 October 2021