

The two programmes can be briefly described as follows:

Advanced Light Materials:

This programme seeks to increase competence and capacity in South Africa in the research and development (R&D) of fibre reinforced composite materials, with particular application to the aerospace and automotive manufacturing sectors.

Currently, the programme comprises nine projects, namely:

- Manufacture of complex shaped composites
- Continuous fibre reinforced thermoplastics for aerospace applications
- Non-destructive testing of complex shaped composites
- Smart health monitoring in composites
- Composite manufacturing standards
- Advanced hybrid thermoplastic composites
- Natural fibre reinforced composites
- Rapid manufacture of continuous fibre reinforced thermosets
- Natfibio

Advanced Electronics:

This Programme endeavours to address the increasing need for competency and capacity in autonomous sensor diagnostics, sensor fusion and networking. To date two projects are in progress, which have broad application across future electronics projects.

Currently, the programme comprises two projects, namely

- Uncooled infrared (IR) sensor technology
- Tunable ultraviolet (UV) sensitive sensors

Guideline Costs

1. Consultant - Projects to be handled on a fixed fee basis of R3000 per day:
 - a. Light Material projects require time allocation of up to 3 days per week.
 - b. Electronics projects require time allocation of up to 3 days per month.
2. Accommodation and travel costs
 - a. Costs shall be covered directly by the AMTS IU. In the case where the consultant is in a better position to cover such costs, the following are applicable:
 - i. Accommodation shall not exceed R1200 per night
 - ii. Car hire limited to group B
 - iii. Economy class air tickets