# STELLENBOSCH TECHNOLOGY CENTRE
Laboratory for Advanced Manufacturing

The Stellenbosch Technology Centre - Laboratory for Advanced Manufacturing (STC-LAM) is part of the Stellenbosch University's Department of Industrial Engineering. The centre is founded upon three focus areas, namely Research and Development, Innovation Action Projects, and Education and Training. Our mission is simple: to deliver novel research, resource efficient solutions, and to support high quality training and education.
State-of-the-art equipment for both subtractive (3- and 5-axis CNC HSC Machining Centres, wire- and die sinking EDM) and additive manufacturing (laser beam melting) is utilised towards maintaining the high quality outputs already established. This includes extensive technology transfer to industry, as well as intensive national and international collaboration. We offer services regarding reverse engineering and product design, prototyping and process chain development, additive and subtractive manufacturing solutions, as well as metrology for part inspection.

The roots of the STC stem from 1997 in the form of the Global Competitiveness Centre in Engineering (GCC); since then we have been assisting industry to meet the challenges of global competitiveness. Over the years, we developed a large customer base including partners from the tooling, automotive and medical industries. We work closely with our partners in the aerospace industry to develop, benchmark and improve process chains for high added-value titanium components.

The primary name Stellenbosch Technology Centre (STC) represents the affiliation and the domain of the facilities:
"Stellenbosch" indicates the affiliation of the unit to the 'alma mater' Stellenbosch University
"Technology Centre" emphasises the focus on the industrial relevance of the facility – identification, acquisition, mastering, multiplication and transfer of advanced technologies to industry through training, demonstration, and dissemination of the acquired and accumulated knowledge via short courses, conferences, seminars, workshops and limited services to local industry.

The secondary name – Laboratory for Advanced Manufacturing (LAM) – symbolizes the research component and academic relevance:
- State-of-the-art technology base for manufacturing engineering research
- Attractive and reliable partner for collaborative projects on national and international level
- Incorporating the Institute for Advanced Tooling into an integrated research domain.

UNIVERSITEIT STELLENBOSCH UNIVERSITY

STC-LAM


We sincerely appreciate the support of our main funders – the Department of Science and Technology, the Department of Trade and Industry, the Technology Innovation Agency, the National Tooling Initiative Programme, and collaborators – SA Academic Institutions, Fraunhofer Institutes - Germany, industrial partners such as Aerosud Aviation, Denel, Polyoak Packaging.

Tel: +27 21 808 9531 | Fax: +27 21 808 4245
Email: tiaan@sun.ac.za

**TRAINING & HUMAN CAPITAL DEVELOPMENT**