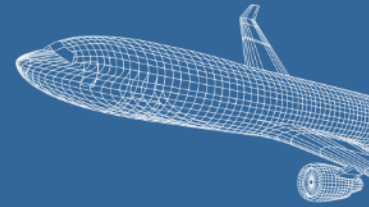


GKN R&T Clusters



Cluster	Area	Cluster leader	"Straddler"
Propulsion system	Performance, engine cycles, concepts, integration, mission, new engine functions and their effect on performance and noise	Anders Lundblad	Anders Lundblad (Chalmers)
Turbomachinery	Aerodynamics, thermodynamics, aeroelasticity, aeromechanics, engine modules, loadpath design, WEMM), fan/compressor/turbine, noise	Hans Mårtensson	
Lifing methods	Stress, lifing, probabilistic design, manufacturing/material-simulation, special analyses: bird impact/ blade containment	Tomas Månsson	Magnus Colliander Hörnqvist (Chalmers)
Value driven development	EWB, PD-methods, probabilistic design, multidisciplinary optimization, FEM-method development	Johan Lööf	Ola Isaksson (Chalmers)
Metallic materials	Materials science (alloys), material models, manufacturing/material-simulation	Geraldine Puyoo	Joel Andersson , Robert Pederson (University West)
Manufacturing systems & processes	Ind 4.0, digitalization, automation, manufacturing processes, inspection/NDT, logistics, manufacturing process simulation	Anders Rosell (tf)	
Composite materials	Material science, manufacturing process, automation, product development methods	Spyros Tsampas	