

GKN Aerospace Thesis Work Proposal

Power Electronics for Engine to Aircraft Electric Supply System

About us

GKN Aerospace is the world's leading multi-technology tier 1 aerospace supplier. With 55 manufacturing locations in 15 countries, we serve over 90% of the world's aircraft and engine manufacturers. We design and manufacture innovative smart aerospace systems and components. Our technologies are used in aircraft ranging from the most used civil aircraft to the world's advanced 5th generation fighter aircraft and the Ariane orbital rockets used by ESA.

Assignment description

Evaluate different power delivery solutions for aircraft electrical system. Thesis work will include (but not limited to):

- Literature search of relevant research in this field
- Establish and evaluate “state-of-the-art” power generation solutions for different industries (automotive, aerospace, power, ...)
- Design compact (volume) and high power density (kW/kg) system for aircraft engine:
 - Generator integration on engine shaft(s)
 - AC to DC conversion (power electronics)
 - AC to DC to AC conversion (power electronics)
- Evaluate impact on design solution ranging between 50 to 500 kW power delivery

Apply by

Send your CV and cover letter to Kent Holmedahl, kent.holmedahl@gknaerospace.com, +46 520 291113. Last date for application: 2021-11-21. Interviews will be held continuously and the position could be filled prior to the last application date.

