

Possible areas for M.Sc. theses within the MIST project

1. Prepare for Thermal Balance Test and Thermal vacuum Chamber Test (TVAC). (TBT validates the thermal model and TVAC cycles the temperature for qualification purposes):
 - Write test procedures
 - Define temperature sensor locations
 - Simulate the thermal response of the satellite in the vacuum chamber to determine chamber and cold plate temperature and to determine the time until thermal equilibrium.
 - Participate in the test – if the project has advanced that far.Read more here: [English](#) - [Svenska](#).
2. Prepare for and execute vibration and shock tests of MIST
3. Attitude control simulation methods ("hardware-" or "software-in-the-loop").
4. On-board computer (OBC) software (software functions in the satellite computer and in simulators of the OBC and experiments).
5. Design of flight simulations of critical flight phases.
6. Storage, display and distribution of experiment data by the ground station

The above thesis subjects are rough ideas at the moment. Interested students can participate in better refining and tailoring these ideas to their ambitions.