

MECHANICAL ENGINEERING

DIMEAS - MELISSAI

Funded By	Dipartimento DIMEAS
Supervisor	MAURO STEFANO - stefano.mauro@polito.it
Contact	MAURO STEFANO - stefano.mauro@polito.it MELCHIORRE MATTEO - matteo.melchiorre@polito.it
Context of the research activity	Development of free flyers to test proximity operations concepts
Objectives	Within the MELISSAI project it is forecast the development of a set of two free-flyers equipped with at least a robotic arm and a docking interface that will be used to test in a protected environment strategies to perform proximity operations for in-orbit servicing. The Ph.D. candidate will give a contribution to the design of the free flyer considering the design phase, the prototyping phase and the final laboratory testing phase.
Skills and competencies for the development of the activity	The knowledge of simulation methods typically used to study mechanical system such as multibody and FE simulation is required. Experience in laboratory testing is welcome