

PhD Research Opportunity Attitude Control Design for Nanosatellite Applications

A four - year PhD Research Assistantship is available immediately for highly motivated candidates to design, develop, test and demonstrate attitude control system onboard nanosatellite missions.

Nanosatellites, in particular CubeSat-class spacecraft, have been increasingly recognized as valuable tools for demonstrating new technologies and HQP training, as well as being an effective means for commercial space and space-based research due to their relatively low cost.

The successful candidate(s) will be responsible for ACS simulation studies and algorithm development. All aspects of ACS study related to nanosatellite applications will be considered. For example, proposed research may focus on feasibility of pure magnetic control for CubeSat-class satellites, combined with orbit determination. In four years, candidates would develop novel estimation and/or control algorithms, followed by simulation and hardware-in-the-loop simulation studies. This may also lead to further hardware (sensor and actuators) integrated system design. Ultimately, he will demonstrate his algorithms on-orbit, following launch.

Applicants are expected to hold MSc or comparable degree in space science or engineering or related discipline. For more information contact

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