

## **Full-time, research Masters (M.Eng.Sc.) in launcher control**

UCD has a contract with the European Space Agency (ESA), under its *Future Launchers Preparatory Programme*, to develop a control system toolbox, to implement a new approach to the control of launchers which has been developed in UCD. The main innovation is that the control system copes robustly with the inherent flexibility of the rocket structure with the added complication of sloshing of on-board fluid propellant.

The research would suit someone with a keen interest in space flight, dynamics, control, numerical modelling and computer programming. He or she would not have to be expert in these areas initially, but should be willing to learn quickly, and be able to do so. He/she would work closely with the team already working on the project, learning from them, and then taking responsibility for key aspects of the research.

The work would also form the basis of a thesis for the degree of Master of Engineering Science by full-time research.

If of interest, instead of accepting the M.Eng.Sc. after one year, it might prove possible to change the work into a PhD (taking 3 to 4 years in total). But the funding currently in place, within the ESA contract, is for a one-year M.Eng.Sc. programme only.

The work would begin this summer, 2015, and run for one year.

The funding would be €17,000, plus university registration fees (currently €6,650).

If you are interested in knowing more, please send an e-mail to

[william.oconnor@ucd.ie](mailto:william.oconnor@ucd.ie)

attaching your CV.

Some background, journalistic information is available at:

<http://www.engineersjournal.ie/ucd-engineers-get-european-space-agency-contract-rocket/>

<http://www.thejournal.ie/space-ucd-rocket-1568875-Jul2014/>