



# Surrey Space Institute could lead UK missions to the stars

2 March 2026



UK-led and UK-enabled space missions within this decade should be the hard-coded goal of the country's space industry at every level, says the Director of the newly launched Surrey Space Institute at the University of Surrey.

Professor Adam Amara, who is also on secondment to the UK Space Agency as Chief Scientist, is calling on the sector and government partners to "stop outsourcing ambition and have belief and pride in our capabilities to operate missions on a regular basis".

Professor Amara said:

*"There is a real opportunity for 'middle powers', as Mark Carney put it, to partner together and compete with the established global superpowers. But this does not mean the UK space industry or the UK public should water down its ambition for what we could accomplish. It is in our gift to establish regular UK-led and operated missions.*

*"Mega-constellations, mega-primers, mega-states - these are the gravitational forces we feel in the world today. But the extraordinary capabilities held by the UK and our allies can be mobilised, as an antidote to the inertia of giants. The Surrey Space Institute will be a focal point for convening the technologies, the researchers and the companies that will prevent middle-power ambitions being limited by fragmentation. This must become a sectoral, a national and a collaborative commitment to contribute to the promise of space."*

The Surrey Space Institute was set up precisely to help deliver that commitment. A key focus will be to help the UK grow the skills and capabilities in today's workforce and for future generations. The Institute will also work with its partners to conceive and operate space missions - combining hardware, software, policy and operations to tackle problems on this planet as well as in deep space. Its research will focus on three areas: managing water and climate on Earth, strengthening space systems such as satellite communications and cybersecurity, and developing the engineering, physiological, legal and economic governance solutions needed to deliver deep space exploration, operation and even settlement.

The UK space sector has a proud heritage - and Surrey has been at the heart of it, helping to drive the small satellite revolution that proved space could be accessible, not just the preserve of superpowers. The Surrey Space Institute will take that further - forging industry partnerships, opening up space sector facilities to small businesses, and equipping the next generation with mission-ready skills through hands-on research opportunities and specialist Continuing Professional Development programmes.

Surrey University



Image: Prof Amara (Surrey Uni) against imagined background of a rocket into space from UK

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