

# SysNova

## ESA's studies competition

SysNova is a space concept competition proposed by the European Space Agency (ESA) aimed at comparing alternative solutions to given space mission challenges.



This competition gives industry and universities the opportunity to work together and propose their solutions in space systems, a field that is the cutting edge of technology par excellence.

Every year ESA's General Studies Programme (GSP) will propose challenges and teams composed by experts from both the academic and industrial worlds will be invited to submit their proposals and compete for a prize, involving further technical support from ESA.

For the 2012 the *topics* include: changing the orbit of an small asteroid or space debris without making physical contact with them, how to target and hit one of the components of a binary asteroid to change its course and how to sustain life in the interplanetary space environment.



Successful proposals should demonstrate a deep understanding of the physics of the problem, provide evidence of technical competence and innovation, and involve a good analysis of the system design solutions.



To join the challenge the proposals shall be *submitted before the 3<sup>rd</sup> of September 2012*. After a first evaluation the best proposals will be funded for more a detailed study and these lasts will be evaluated and the bests will be rewarded.

SysNova is a good opportunity to propose new technical solutions on topics of great interest for future space programmes. The competition gives the participants the chance to get involved in such programmes and discuss their ideas during the workshop that will take place in ESA's technical centre at the end of the competition.

# More information on SysNova:

For further information please consult the GSP website:

[http://www.esa.int/SPECIALS/GSP/SEMQBW7X73H\\_0.html](http://www.esa.int/SPECIALS/GSP/SEMQBW7X73H_0.html)

and ESA's Electronic Tendering System, EMITS:

<http://emits.esa.int/>



## **ESA's General Studies Programme Unit**

<http://www.esa.int/gsp>

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