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## Factsheet

# Swiss Propulsion Laboratory SPL

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### Goal

We see a low cost access to space for science and economy as a key to success for an innovative and competitive society. So, the goal of SPL is to develop and test low cost and reliable propulsion components for small- and middle-sized space-projects.

### Values

Switzerland has collected lots of space- or nearspace experiences since the fifties. For example with the development and the use of the ZENIT sounding rocket or the stratosphere flights with the Mirage IIIS up to an altitude of 24 km. Obviously, Switzerland has a tradition in space travel!

**We believe, that it is worth, to continue with this tradition!**

We do this with sound, scientific and engineering methods, in an open and ecofriendly way and for civil purpose.

### Facts and Figures

SPL was founded in 1998. Today a crew of 5 plus 6 students and 6 corporation employees work for SPL.

#### About our products

- Thrust of liquid engines (LOX / Kerosine): 3 - 3000 N
- Thrust of solid motors: up to 12 kN
- In Development: Engines up to 30 kN
- Additional products: Igniters, testbeds, turbines, gas generators, staging mechanisms, steam propulsion, consulting and engineering

#### About our indoor test stand

- Total weight of 100 tons (twice empty Boing 737)
- Thrust-limit: 100 kN
- Noise reduction better than 30 dB

#### About our patents

2 registered patents

#### About cooperation with university of applied science

Since 1998, coaching of some 20 students;  
10 propulsion related master thesis could be realized.

### Letters of Intent LOI / Projects

- TALIS Institut "Project Enterprise" (suborbital plane powered by SPL engines)
- Project Ausroc 2.5 (Soundingrocket) with Australian Space Reserach Institute ASRI
- Da Vinci Project, Canada (suborbital plane powered by SPL engines)
- Malaysia "Project ANGKASAWAN" (suborbital plane powered by SPL engines)
- PROTAC (Bayern-Chemie); "Projet Propulsion Liquid"
- Microlaunch, Cambridge UK (cooperation Space plane)
- HMX, t/space USA (test stand)
- Fiat-Avio Italy (test stand)

### Partners and contacts

- ARO TECHNOLOGIES [www.aro.ch](http://www.aro.ch)
- TALIS Enterprise GmbH [www.talisinstitut.de](http://www.talisinstitut.de)
- Australian Space Reserach Institute ASRI [www.asri.org.au](http://www.asri.org.au)  
(SPL has free launchside access in Woomera)
- Deutsches Luft- und Raumfahrtzentrum DLR [www.dlr.de](http://www.dlr.de)
- FHNW (University of applied science NW-Switzerland) [www.fhnw.ch](http://www.fhnw.ch)
- Vega [www.vega.de](http://www.vega.de)
- SpaceTravellers [www.space-travellers.de](http://www.space-travellers.de)
- Da Vinci Project [www.davinciproject.com](http://www.davinciproject.com)



## PR-Work

- 6 articles since PR work has been started in September 07 - One TV broadcast in Swiss TV in 2006
- 12 articles in total since 1998

## For more details see

- "Basisdossier – Swiss Propulsion Laboratory (SPL) im Detail"
- [www.spl.ch](http://www.spl.ch)

## Contact

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