

## ALPES LASERS SA

### Short description:

Alpes Lasers SA is a component and sub-systems designer and manufacturer. Our core competency is Quantum Cascade Laser design, fabrication and quality assurance. Over the years the company have enlarged our competency towards more generally semiconductor laser design and manufacture. Alpes Lasers SA was founded in 1998 and employs 30 people mostly scientists and engineers. The company has been participating to numerous EU and national projects and has a culture of scientific project fulfillment with the added value of providing fully finished industrial products as development deliverables allowing a hassle free deployment of the technology.

### Partnership / cooperation possibilities:

Alpes Lasers can design and produce lasers with very specific performances for applications needing devices from 1.45 to 23 microns. Alpes Lasers has been optimizing devices for applications ranging from air pollution monitoring to breath analysis applied to medical diagnostic as well as from high power applications aimed at missile jamming to combustion monitoring. Alpes can develop: single- or multi-mode lasers, narrow or large spectral gain material with specialized coatings, comb capable lasers, high power (>1W) single- or multi-mode devices. Alpes has also designed and optimized sub systems to operate lasers with large tuning capabilities using multi-section technology and designed the needed sophisticated drive electronics. Alpes has development capabilities for external cavities optics, electronics and dedicated gain chips.

### Possible H2020 calls (2016-2017):

FoF 01-2016:	Novel hybrid approaches for additive and subtractive manufacturing machines
BIOTEC 02-2016	Bioconversion of non-agricultural waste into biomolecules for industrial applications
ICT3 – 2016:	SSI – Smart System Integration
ICT29 – 2016:	Photonics KET 2016
SPIRE 01-2016:	Systematic approaches for resource-efficient water management systems in process industries
SPIRE 02-2016:	Plant-wide monitoring and control of data-intensive processes
SPIRE 03-2016:	Industrial technologies for the valorisation of European bio-resources into high added value process streams
SPIRE 05-2016:	Potential use of CO <sub>2</sub> /CO and non-conventional fossil natural resources in Europe as feedstock for the process industry
NMBP 44-2016	Pilot lines for manufacturing of materials with customized thermal/electrical conductivity properties
SPIRE 08-2017:	CO <sub>2</sub> Utilisation to produce added value chemicals
SPIRE 09-2017:	Pilot lines based on more flexible and down-scaled high performance processing
NMBP 47-2017:	Pilot Lines for 3D printed and/or injection moulded polymeric or ceramic microfluidic MEMS
NMBP 13-2017:	Cross-KET for Health
NMBP 04-2017:	Architected/Advanced material concepts for intelligent bulk material structures
NMBP 15-2017:	Nanotechnologies for imaging cellular transplants and regenerative processes in vivo
FOF 08-2017:	In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
FOF-13-2017:	Photonics Laser-based production
ICT30 – 2017:	Photonics KET 2017

### Contacts:

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