



Function description

Function name	Laser (matter) engineer
Goals of the function	Responsible for extending our knowledge on lasers and laser matter interaction. Improves existing pulsed laser deposition (PLD) processes and develops processes for new materials.

Description of work

Solmates is a high-end OEM equipment supplier for the MEMS, LED & Semiconductor market. To support continuous growth the Laser Engineer is part of the team responsible for development of the next generation PLD deposition equipment. The engineer will be part of a highly motivated project team reporting to the director strategic developments.

Main tasks of the Laser Engineer:

- Lead complex engineering task
- Collaborate with various university groups
- Work with suppliers
- Set-up, execute and analyze experiments
- Determine hardware requirements.

Required and desired competences and experience:

- Goal oriented
- Fast learner and decision maker
- Hands-on: Perform all necessary tasks, both on detail level (measurements, analysis, runs, etc.) and on higher level (strategic, timing, specs, etc.)
- Knowledge of/experience with:
 - a. laser operation and laser matter interaction.
 - b. ablation and plasma formation/activation
 - c. Basic knowledge of thin film deposition and patterning (sputtering, evaporation, Litho, etching, etc.)
- DoE /design for six sigma experience is highly appreciated
- Willingness to travel (10%)

Other interests

As Solmates is a young dynamic company, multi-tasking and clear planning is vital. All personnel operate with a clear understanding what their core role is and where to support others. Within Solmates there are no predefined guidelines, self-managing and self-motivation are two key required competencies.

Required educational level	MSc/PhD Degree in the field of Applied Physics, Electrical engineering or chemical engineering.
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Required experience	At least 2 years of working experience.
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