



## Expert in optoelectronic component hybridisation (InP on Si)

### **Company description:**

Almae Technologies is a fast-growing SME that designs and manufactures advanced optoelectronic components for optical telecommunications networks. Our company's mission is to be a world-class partner and reliable supplier to industries that use advanced laser technologies, thanks to its InP-based semiconductor component technology chain.

These optoelectronic semiconductor devices are designed and manufactured entirely in a controlled cleanroom environment at Almae, from epitaxy, fabrication, backend, test and prototyping.

In particular, we produce very high-speed laser-modulator components, high-power lasers and semiconductor amplifiers.

### **Missions:**

Almae is looking to develop its hybridisation activity between optoelectronic components and silicon platforms in order to reduce costs and improve performance. We are seeking for a candidate with experience in this field, particularly in optical alignment and metallurgy.

The tasks will be as follows:

- Monitor the state of the art and proposing the most appropriate technical solutions, define and set up the necessary partnerships (Silicon platforms, assemblers).
- Implement the chosen technical hybridisation solutions: component geometry, alignment patterns, choice of metallisations, ... Produce the mask sets with the experimental designs, and monitor their production with the clean-room technologists.
- Define the validation tests and analyse the results in relation to the designs, propose any necessary improvements.
- Manage the project on a day-to-day basis and interactions with customers/partners.
- Set up an in-house hybridisation solution (choice of equipment, commissioning and process optimisation).
- Promote the results in conferences, scientific articles and patents.



**Skills and knowledge required:**

- 5 years' higher education or more.
- At least 5 years' expertise in the field of optoelectronic semiconductor components, with particular emphasis on InP hybridisation on silicon.
- Project management skills: ability to organise and summarise, autonomy.
- Ability to communicate internally and with external customers or partners. Fluency in English.

**Terms and conditions of employment:**

Working week: 39 hours per week

Company Savings Plan

Profit-sharing agreement

REDUCED WORKING WEEK

Time Savings Account

Luncheon vouchers

Mobility bonus

Mutual insurance / provident fund paid 100% by the company

Workplace: DATA4-Marcoussis site, served by public transport.

Type of contract: Permanent contract

Gross monthly salary: depending on profile

Contact us only at : [career@almae-technologies.com](mailto:career@almae-technologies.com)