



Master PICS 2 2021-2022

Internship subject

Title : Long distance DAS

Keywords: Distributed fibre optic sensing, Rayleigh, field applications

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Main location of the project: Morges, Switzerland

Subject:

The deployment of distributed acoustic sensing in the field requires long measurement distances that are currently beyond the capacity of Omnisens instrumentation.

Within the scope of this project, the student will transfer know how from our academic partner regarding coherent detection applied to DAS and integrate it into our dedicated HW. Then, the student will carefully analyze the tuning parameters and review the possible performance, both in the lab and in one or more test sites, depending on ongoing projects. In a final step, the findings will be transferred to the production team.

The project may require travel within and outside of Switzerland for field tests.

References :

Technical support - equipment available : Full laboratory, dedicated instruments.