

Tecnologie prevenzione incendi

PARTNER SEARCH PMI7-EU-BSGSME-24

01 dicembre 2017

Oggetto: PARTNER SEARCH PMI7-EU-BSGSME-24

Richiesta di una PMI francese alla ricerca di partner da includere in un loro progetto.

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<Reference n.: PMI7-EU-BSGSME-24>

<Deadline: 04/09/2007>

<Programme: >

<Project Title: PYRODE: a highly sensitive apparatus for the detection of sparks, flames, smoke,>

<Financial Scheme: >

<Description: Problem being addressed:

Fire prevention demands highly reliable, high sensitivity detectors as a means to assess and detect, at the earliest possible instant, incidents which lead to ignition of fires. Forest fires in particular are of growing concern. The "pyrode" device aims to provide the means for earliest possible detection, pinpoint location, and assessment of the threat from burning material.

Innovation:

Pyrode uses a highly innovative approach to spark/flame/corona detection based on Very UltraViolet technology (VUV), with extremely high sensitivity, very low power consumption, and with the potential for very low overall system cost. The functional performance has already been well proven in the laboratory, where such VUV detectors are used in particle physics experiments.

The overall system for the pyrode project requires development and integration of lens, electronic imaging and associated controller interface components, with attention to overall design-for-commercialisation to achieve optimised priceperformance.

<Organisation Type: PMI >

<Partner Sought: SME 1: VERY ULTRA VIOLET (VUV) OPTICAL LENS MANUFACTURER

Company able to produce optical lenses working in the VUV segment of spectrum (known variously as "Very UltraViolet", "Vacuum UltraViolet", "Deep Ultra Violet" or "Extreme Ultra Violet"). The optical properties of the lenses must be stable and function effectively at wavelengths in the region 170 - 230 nm.

Responsibilities in the project: design-for-manufacture of VUV-capable lens system so as to enable an attractive price/performance ratio at different manufacturing volumes. Integration of the lens components within the overall Pyrode detection system.

SME 2 : Electronic imaging/embedded components

Company able to produce signal read-out electronics and interface that will be connected to the output of a pixel array imager (probably similar to that of a CCD camera). Work will include design-for-manufacture of discrete embedded components (possibly ASIC, FPGA, or SoC depending on targeted production volumes and eventual integrated functionality).

Responsibilities in the project: implementation of design-for-manufacture. Interfacing and integration of the component within the overall Pyrode detection system.