Characterization of Applied Magnetic Materials for Industrial Scale Products

Fact Sheet

Project Information

CAMMISP

Grant agreement ID: 220166

Project closed

Start date
1 July 2008

End date
30 June 2010

Funded under
Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost
€ 216 049,07

EU contribution
€ 216 049,07

Coordinated by
ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE
Spain

Objective

The fundamental technology change towards using ferromagnetic structures with perpendicular anisotropy as storage media that worldwide hard disk drive industry

has recently started, is generating a tremendous interest in the development of novel materials as well as characterization methodologies for perpendicular magnetic recording (PMR) applications. For the European research area and the European nanotechnologies industry it is imperative to gain worldwide leadership. A key factor in this direction is the professional training and career development of researchers with an enhanced competence and skill diversification encompassing fundamental physics and applied technology aspects. The main goal of the here proposed project is the professional training and career development of Dr. Vavassori, who will be provided with the knowledge and tools to tackle the scientific and technological challenges related to PMR media design and characterization. The project aims at achieving this goal by complementing the world-class expertise of the applicant in fundamental nano-magnetism and advanced magneto-optical tooling by supplementing it with additional knowledge of both applied physics quests and materials characterization methodologies related to PMR applications. The research training will be carried out using the world-class research facilities of the recently established nanoGUNE research centre and the long-standing experience of Dr. Berger, its lead scientific contributor, in the field of standard and innovative materials characterization for hard disk drives application. The inter-disciplinary expertise acquired during the research training will put him into an excellent position to build an entirely new research program and to effectively interface with leading industry researchers and developers in the future. This should strengthen not just his own research portfolio, but also the European excellence and competitiveness in the field of applied nano-magnetism.

Fields of science (EuroSciVoc)

engineering and technology > **nanotechnology**

Keywords

Applied optics | Electronic | Experimental physics | Magnetic recording | Measurement | Measurement technology | Nano-magnetism | Nanotechnology | magnetic and superconductive properties

Programme(s)

FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Topic(s)

PEOPLE-2007-2-1.IEF - Marie Curie Action: "Intra-European Fellowships for Career Development"

Call for proposal

FP7-PEOPLE-2007-2-1-IEF
See other projects for this call

Funding Scheme

MC-IEF - Intra-European Fellowships (IEF)

Coordinator

ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN NANOCIENCIAS CIC NANOGUNE

EU contribution

€ 216 049,07

Total cost

No data

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Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Last update: 10 March 2023

Permalink: https://cordis.europa.eu/project/id/220166