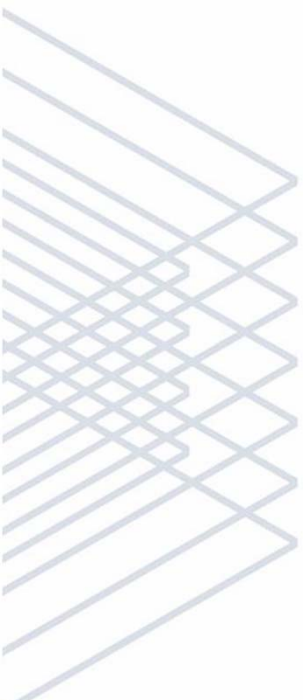




## SPIN Institute Location and Contact

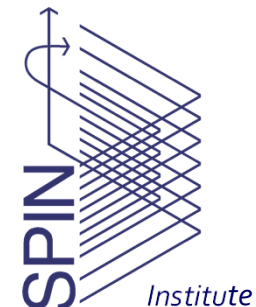


### Headquarters

Corso F.M. Perrone, n.24  
16152 Genova, Italy

Ph. +39 010 6598 750  
Fax +39 010 6506 302  
e.mail segreteria@spin.cnr.it  
Web www.spin.cnr.it

SPIN Director Carlo Ferdeghini  
Deputy Director Daniele Marrè



Napoli  
SPIN  
Operative Unit  
C/o Dip.to di Scienze Fisiche  
Complesso Universitario M. S. Angelo  
Via Cintia 80126 Napoli, Italy  
Deputy Director Gian Piero Pepe

Salerno  
SPIN  
Operative Unit  
C/o Dip.to Fisica, Università di Salerno  
Via Giovanni Paolo II, 132  
84084 Fisciano (SA, Italy)  
Deputy Director Sergio Pagano

L'Aquila  
SPIN  
Operative Unit  
C/o Dip.to Fisica, Università dell'Aquila  
Via Vetoio, 10  
Località Coppito 67100 L'Aquila, Italy  
Deputy Director Silvia Picozzi

SPIN  
Operative  
Location  
Università di Genova  
Deputy Director Daniele Marrè  
Università di Roma La Sapienza  
Università di Roma Tor Vergata  
Deputy Director Carmela Aruta

### **International Advisory Board**

Agnes Barthelemy, University of Paris Sud  
David Larbalestier, Applied Superconductivity Center,  
Tallahassee, Florida

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### Physics and applications of

superconductivity  
and magnetic systems

oxides  
and other innovative functional materials

organic,  
hybrid and nanostructured systems

innovative devices



## Mission

The mission of the Institute is the study of superconductors and of other innovative materials and of their application in the fields of electronics and energy: oxides, organic, hybrid and other complex materials exhibiting superconducting, magnetic and other properties for the development of novel nano- and micro-device concepts and prototypes.



## Relationship

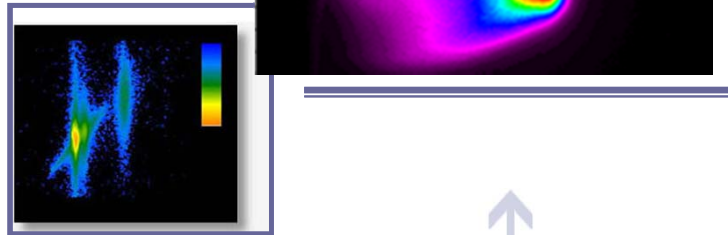
By following the trend firmly established in the last years at an international level the original SPIN expertise in superconductivity and high-Tc superconductor oxides has gradually evolved by shifting emphasis towards novel advanced materials. A strong push was given in the last decade to research in fields such as multifunctional oxides, organic and hybrid materials, and nanostructured systems. Analogous trends can be indeed observed in important European, US and Japanese laboratories (Argonne National Laboratory, Illinois; Applied Superconductivity Center, Tallahassee, Florida; Pennsylvania State University; ISIR, Osaka; Tsukuba University and many others). A relevant characteristic of the Institute is the extensive use of linear, nonlinear and ultrafast laser techniques for materials synthesis and characterization. This very successful approach provides added value to the research in the SPIN fields of study.

## Industrial Collaborations and Technology Transfer

The scientific and technological research activities carried out by the SPIN laboratories have a wide and strong impact on industrial interests and technology transfer initiatives.

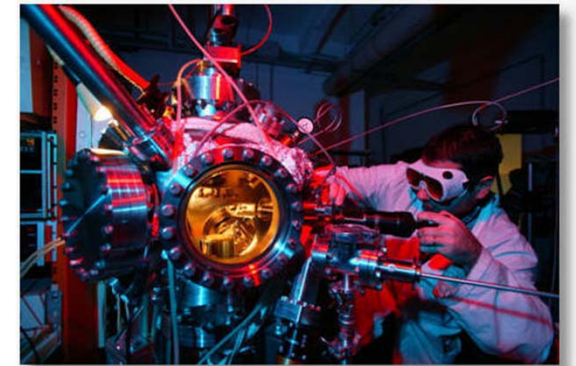
The spin-off company Columbus Superconductor SPA is a successful example coming from the fruitful research collaboration with ASG Superconductors SPA for the production and the commercialization of innovative MgB<sub>2</sub> superconducting wires.

One in the main technology transfer initiatives is participation to the Regional Competence Centre in Campania *New Technologies for productive activities* (Naples and Salerno Units) that represents an important and effective connection with the local industrial issue.



## Personnel

The Institute assembles a team of 60 CNR staff researchers, 80 Associated University professors, 15 employees working in administration and general services, and a good number of post-docs and PhD students (about 40 at this stage). Training and education at undergraduate and PhD level are carried out in close collaboration with the Universities hosting the local SPIN Units.



## Facilities

SPIN is endowed with an impressive set of advanced scientific instruments, including nearly 20 thin film deposition systems, 3 clean rooms, 3 high-field and-low temperature STM systems, numerous laser sources emitting from IR to UV and ranging from CW mode to femtosecond pulses, and numerous other equipment. The scientific research is supported by well-equipped electronic and mechanical workshops, library, www, email, network-storage services and GRID computing.

## Budget

The Institute overall institutional budget is on the order of 4 million € per year (including the employee payroll) and a further budget on the order of 2 million € per year is expected through participation in competitive research calls (projects funded at regional, national and European level).

