

**CENTRO DE INVESTIGACIONES ENERGETICAS
MEDIOAMBIENTALES Y TECNOLOGICAS (CIEMAT)
ESPAÑA**

CIEMAT-HELEN FELLOWSHIPS- 2nd YEAR (2006-2007)

CIEMAT offers the following GRANTS, open to participation from all HELEN Institutions in Latin America.

Applicants must send their application, using the special CIEMAT form, to **the Interlocutor of their own Institution.**

The corresponding Local Committee will make, **for each Grant**, a list of the applicants with the correct qualification **in order of merit.**

The CIEMAT Local Committee will make, out of these proposals, a unique, ordered list of applicants and send it to the Central Committee for approval.

CIEMAT Local Committee:

Dr. Juan Antonio Rubio (Chair)

Dr. Marcos Cerrada

Dr. Nicanor Colino

Alternating Members:

Dr. Javier Berdugo

Latin America to Europe

DESTINATION: CIEMAT-MADRID

Starting date: after January 2007

Grant	Type	Work program	Months	Destination
1.	AT	LHC Program: Commissioning of the CMS Barrel Muon Detector; preparation for physics analysis in CMS. <u>Background:</u> Ph.D. work in progress, oriented to experimental Particle Physics and experience in software or hardware tools related to HEP experiments will be valued (Tutor: Marcos Cerrada)	12	Madrid

2.	AT	LHC Program: Commissioning of the CMS Barrel Muon Detector; CMS GRID Computing. <u>Background</u>: Ph.D. work in progress, oriented to experimental Particle Physics and experience in software or hardware tools related to HEP experiments will be valued. (Tutor: Nicanor Colino)	12	Madrid
3.	AT	LHC Program: Installation and use of software for reconstruction and analysis of the ALICE Experiment at CIEMAT (some trips to CERN). <u>Background</u>: physicist; experience in experimental ultra-relativistic ion collision experiments will be valued. (Tutor: Pedro Ladrón de Guevara)	12	Madrid
4.	AT	AMS experiment: Assembly of the RICH detector. <u>Background</u>: Ph.D. work in progress, oriented to experimental Particle Physics and experience in software or hardware tools related to HEP experiments will be valued (Tutor: Javier Berdugo)	12	Madrid
5.	AT	Medical Physics. Development of algorithms to be used in radiotherapy (IMRT and IMPT) and radiodiagnostic (reconstruction of 3D images) areas. <u>Background</u>: Physicist or industrial or IT engineer; experience in C++ , fortran99, and Montecarlo programs will be valued. (Tutor : Miguel Embid)	12	Madrid
6.	AT	Grid Administration. Development and implementation of GRID applications. <u>Background</u>: experience in Linux administration and development of applications with programming languages will be valued (Tutor: Jesús Casado)	12	Madrid