

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

**CIEMAT-HELEN FELLOWSHIPS- 2nd YEAR (2006-2007)
SECOND CALL**

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

Starting date: after June 2007

Grant	Type	Work program	Months	Destination CIEMAT
1.	AT	LHC Program: preparation for data taking and physics analysis in CMS. <u>Background</u> : Ph. D. work in progress, oriented to experimental Particle Physics and experience in software or hardware (silicon) tools related to HEP experiments will be valued. Some parts of the work will be done in other Institutions in the Collaboration. (Tutor: Juan Pablo Fernandez)	12	Madrid
2.	AT	LHC Program: analysis of the data to be produced in the LHC CERN experiment ALICE. <u>Background</u> : physicist; with experience in experimental ultrarelativistic ion collision experiments and some experience on physics analysis and the use of the associated software. Previous experience in ALICE and availability	12	Madrid

		to make short trips to CERN will be valued. (Tutor: Pedro Ladrón de Guevara)		
3.	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
4.	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
5.	AT	Grid Administration: installation and configuration of new nodes; performance of applications running on the deployed grid infrastructure. <u>Background</u> : Previous knowledge and skills in Linux/ Unix administration is required. (Tutor: Miguel Cárdenas)	12	Trujillo (Extremadura)