# Working at CIEMAT (Madrid - SPAIN)









At CIEMAT, we participate in several projects of Particle Physics and Astrophysics

to plenty of

facilities and

infrastructures





Hadron collider physics



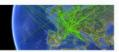
Calorimeter for a future linear



PAU



Accelerating universe, dark energy







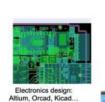
Very high energy gamma rays

collider

Dark energy, cosmology







ASIC wire and bump

Data acquisition and

online control software

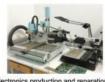
Analog and digital ASIC design. Experience with Europractice

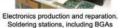
1400 people Nearby (20 min in subway)

from Madrid's center

Equipped laboratories for electronics

testing, inspection and quality control





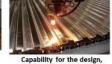
And have access Clean Room equipped for cryo and vacuum





Capability of intense computation

mechanical structures analysis and



fabrication and assembly of large and complex scientific structures:

- End to End project Management
- From prototypes to large



- Collaboration with companie - Space, underground, etc





Access to precision strength testing machines





Access to heavy

duty welding

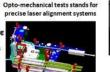






Equipped labs for cryo

Design and manufacturing of control and automatization system



nvironmental chambers



Access to radiation facilities





PCB prototyping

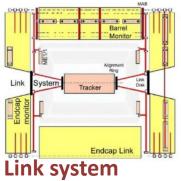
# **CIEMAT** participation in CMS

CIEMAT participation in CMS since the early stages Heavy involvement since more than 20 years in:

- Physic analysis (electroweak, top, Higgs and BSM)
- Detector HW activities (Muon Drift Tubes and Trigger)
- Computing







### **CIEMAT's CMS members**

#### Large group:

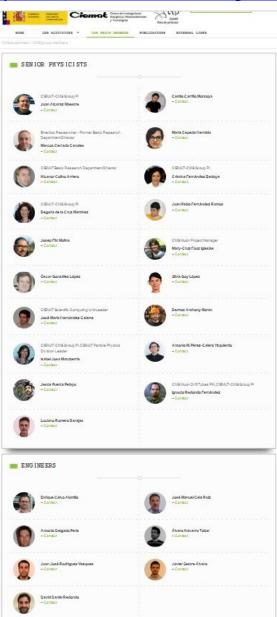
- 19 senior physicists
- 7 engineers
- 6 technicians

+ students, etc

Part of the group is permanent at CERN and part is at Madrid



#### http://cms.ciemat.es/cms-group



# CIEMAT's job offer:

Some (non-permanent) positions are expected to be opened soon:

- Postdoc: could be junior or senior

The person is expect to contribute in:

- Detector activities, particularly in the HL-LHC upgrade of the Muon DT or Trigger detectors
- Data taking activities during Run 3
- Physic analysis

Experience will be valued both in:

- Pure hardware activities (firmware development, electronics design, installation and commissioning experience)
- Detector performance with CMSSW (data analysis oriented to study the performance of the detector and of the trigger system during Run 3 collisions)

Possibility to stay at CERN or travel frequently could be negotiated

Other (non-permanent) positions:

- Junior Postdoc: Physics analysis
- Engineer: electronics engineer profile
- Students: PhD students