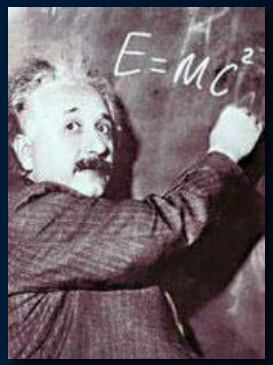
CERN – accelerating science and innovation

International Relations
Relations internationales

The Mission of CERN



- **Push back** the frontiers of knowledge

  E.g. the secrets of the Big Bang …what was the matter like within the first moments of the Universe's existence?

- **Develop** new technologies for accelerators, detectors & IT

  Information technology - the Web and the GRID

  Medicine - diagnosis and therapy

- **Train** scientists and engineers of tomorrow

- **Unite** people from different countries and cultures

CERN: founded in 1954: 12 European States
"Science for Peace"
Today: 22 Member States

~ 2500 staff
~ 1800 other paid personnel
~ 13000 scientific users

Budget (2018) ~ 1150 MCHF

Member States: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom

Associate Members in the Pre-Stage to Membership: Cyprus, Serbia, Slovenia

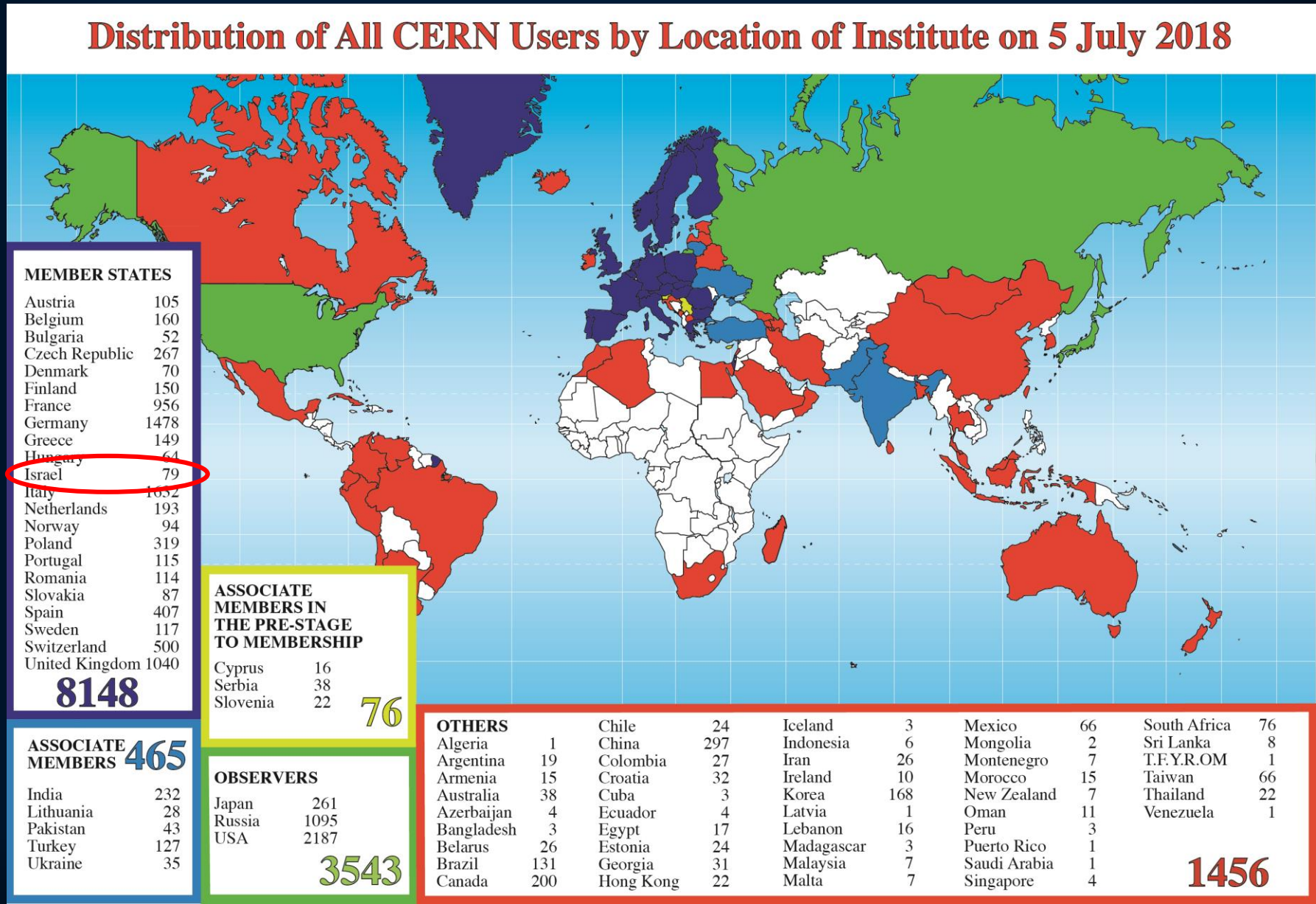
Associate Member States: India, Lithuania, Pakistan, Turkey, Ukraine

Applications for Membership or Associate Membership: Brazil, Croatia

Observers to Council: Japan, Russia, United States of America; European Union, JINR and UNESCO

Israel and CERN

Science is getting more and more global



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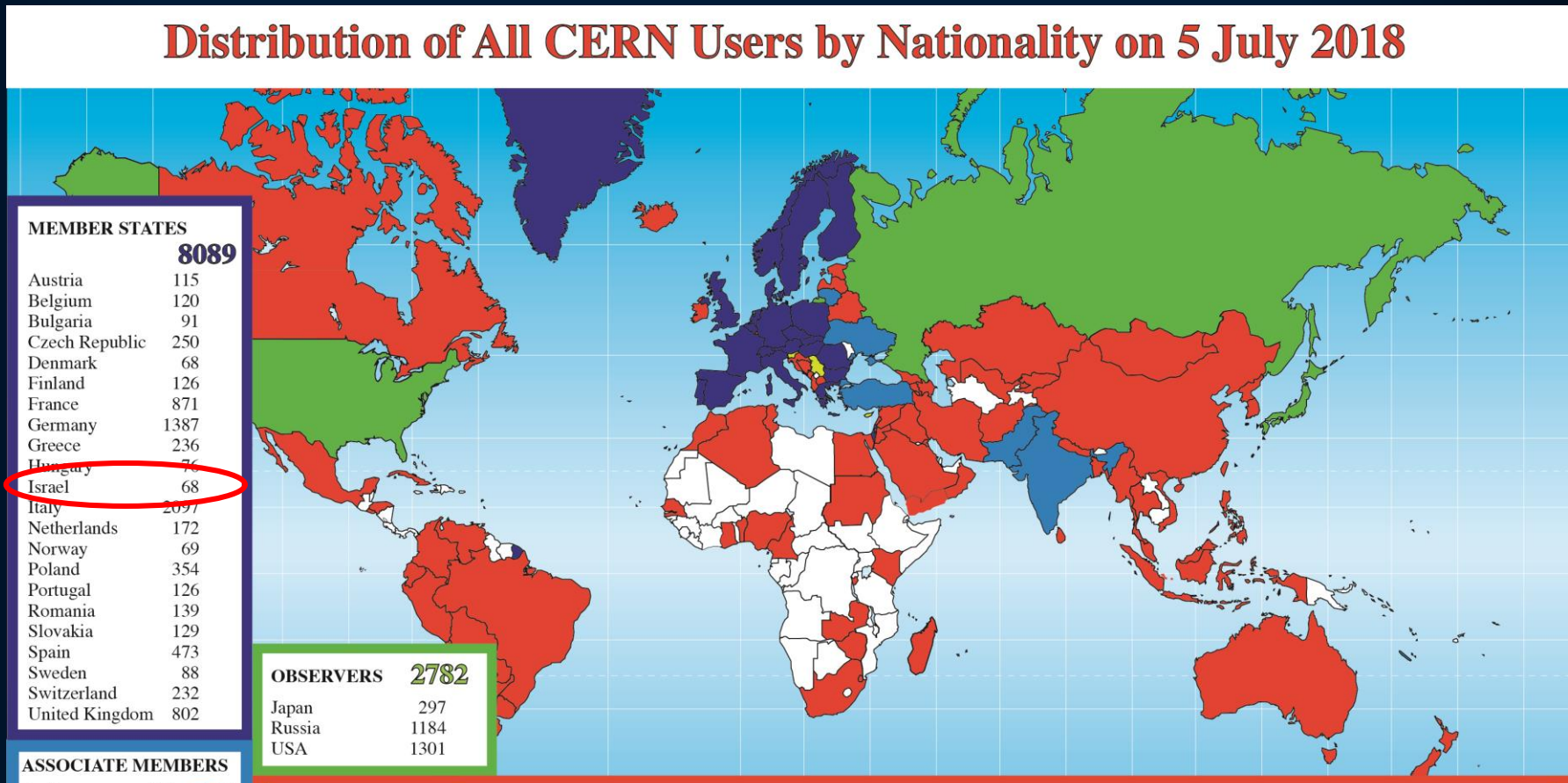
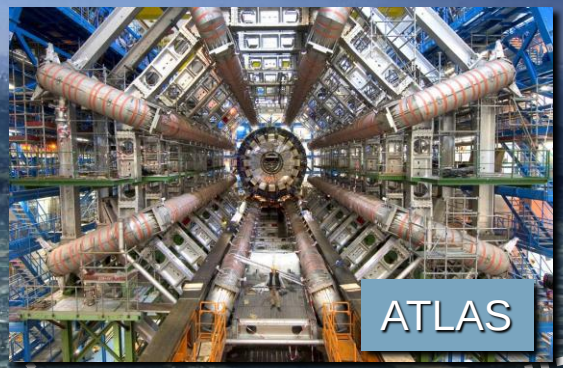
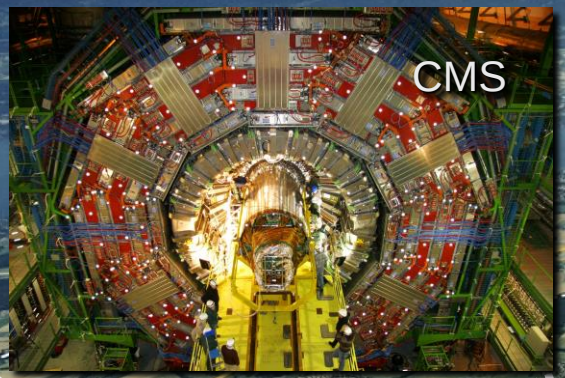


2010: a New Era in Fundamental Science





Exploration of a new energy frontier
in p-p and Pb-Pb collisions

CERN

Discovery 2012, Nobel Prize in Physics 2013

The Nobel Prize in Physics 2013 was awarded jointly to François Englert and Peter W. Higgs *"for the theoretical discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles, and which recently was confirmed through the discovery of the predicted fundamental particle, by the ATLAS and CMS experiments at CERN's Large Hadron Collider".*

CERN Education Activities

Scientists at CERN
Academic Training Programme

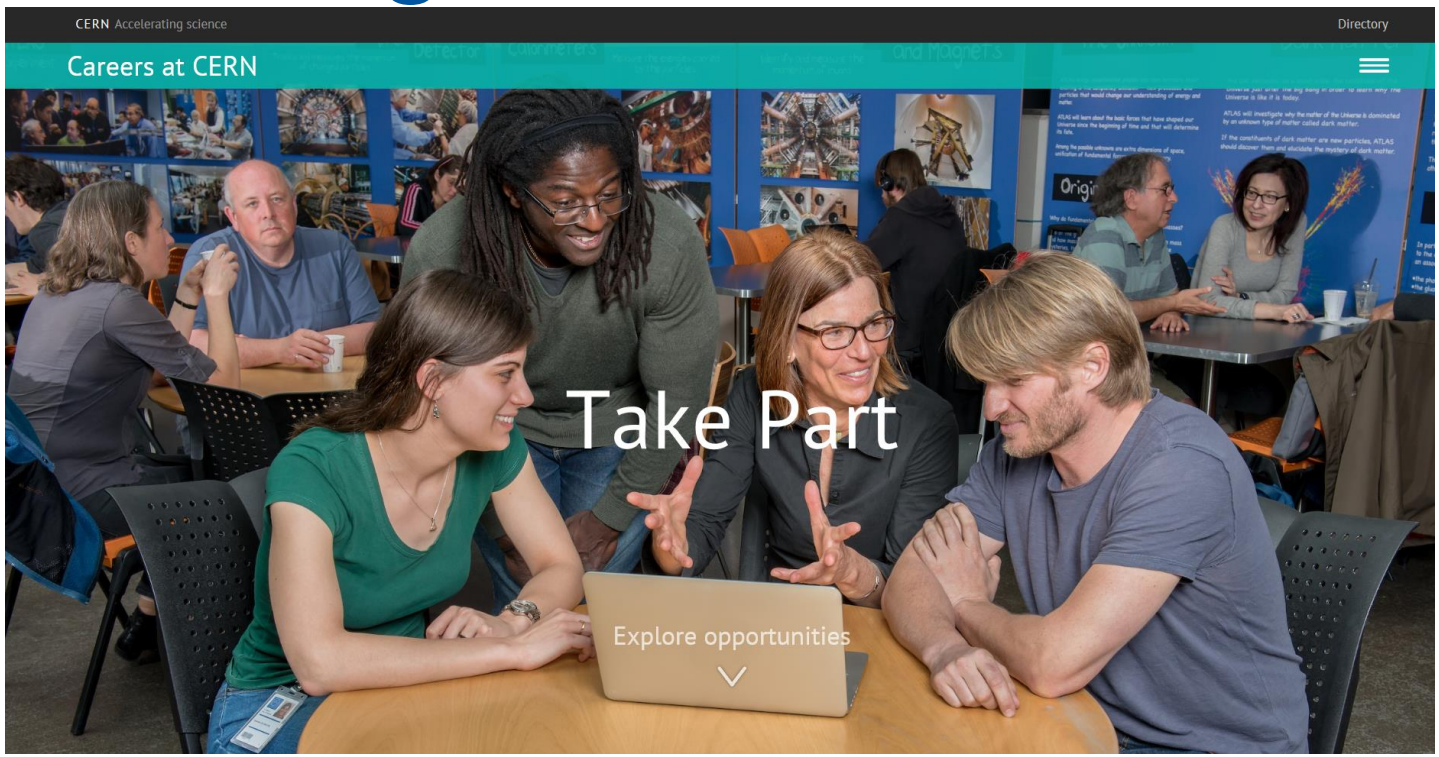
Young Researchers
CERN School of High Energy Physics
CERN School of Computing
CERN Accelerator School

Undergraduates
Summer Students Programme

CERN Teacher Schools
International and National Programmes

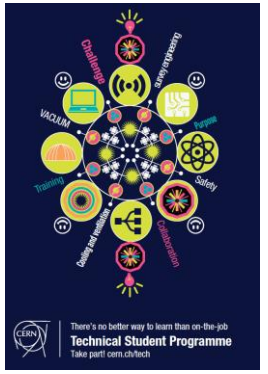
Public visitors
130 thousand per year

Working at CERN: How?



careers.cern

Technical Students programme



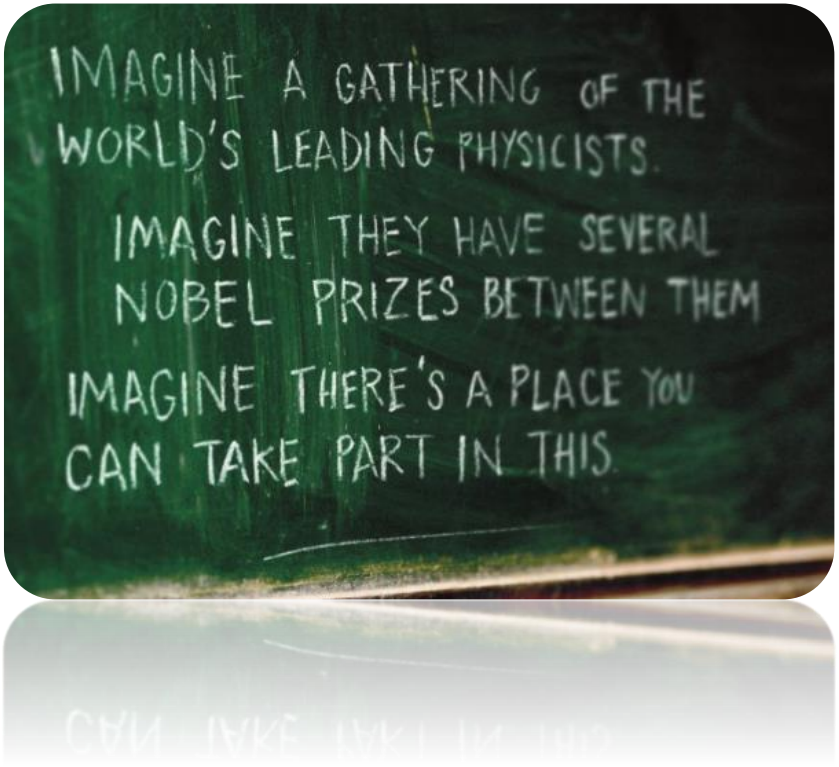
"It's a great place to start a career, it's a great place to learn new skills, make new friends…"

~ 200 positions/year

FIELDS :	applied physics, engineering, computing
LENGTH :	4 to 12 months
ELIGIBILITY :	18 months of technical undergraduate studies
FEATURES :	a technical project with a CERN supervisor
	a living allowance, incl. health insurance

Committees in May and December

Doctoral Student programme



"Gave me the opportunity to meet important people, especially in the research fields"

~60 positions/year

FIELDS : applied physics, engineering, computing

LENGTH : 6 mths -3 years

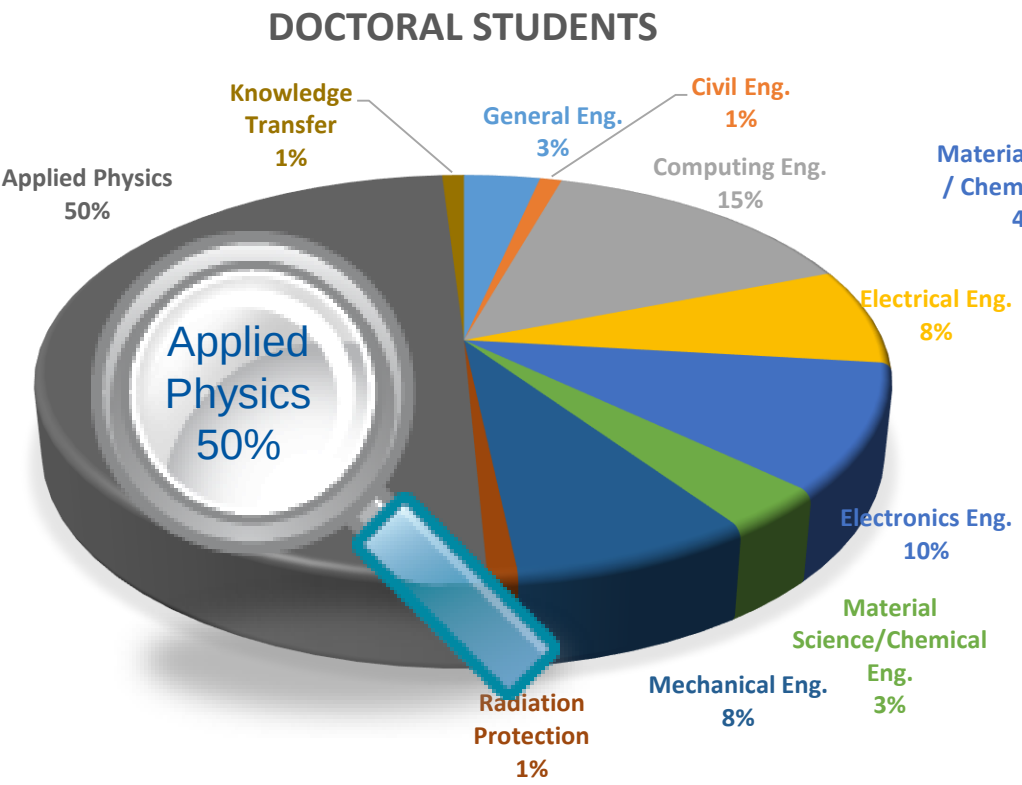
ELIGIBILITY : enrolled in a doctoral program in a Member State university

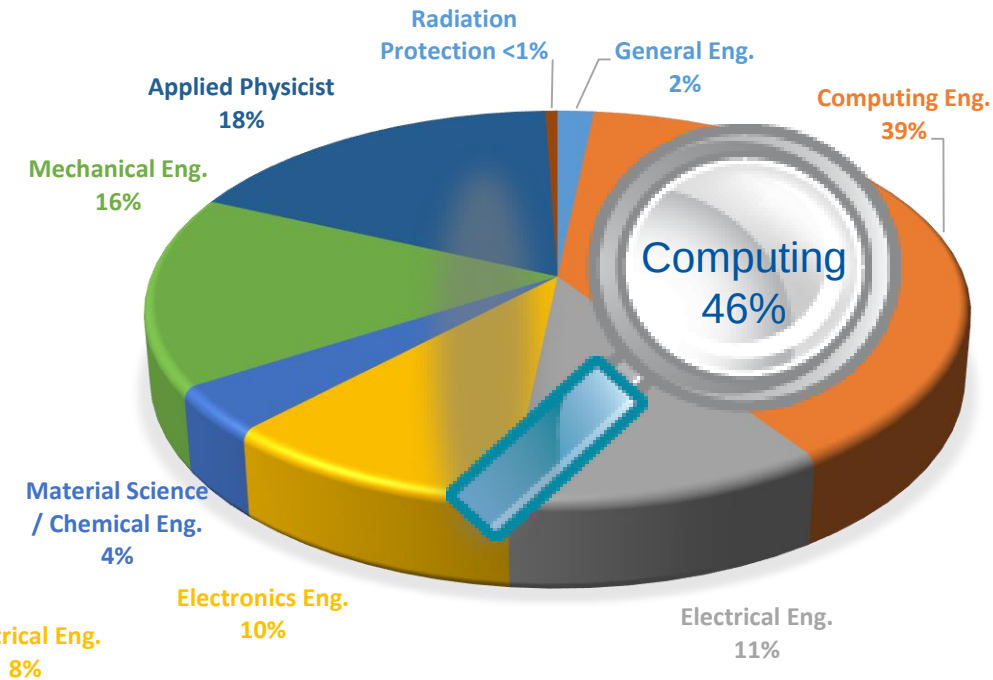
FEATURES : a technical project, leading to a PhD thesis co-supervised by the university thesis advisor and a CERN staff member

a living allowance incl. Health insurance

Committees in May and December

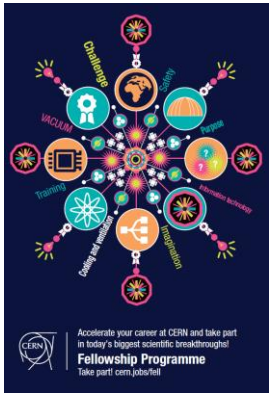
Students by Discipline





Fellows

"An ideal place to follow the most recent ideas in physics and start new collaborations"



~250 positions/year

FIELDS : physics, engineering, computing – from junior engineers to posst-doc research physicists

LENGTH: **2-3 years**

ELIGIBILITY : BSc, MSc or PhD

no more than 10 years relevant post-MSc experience

FEATURES : employment contract

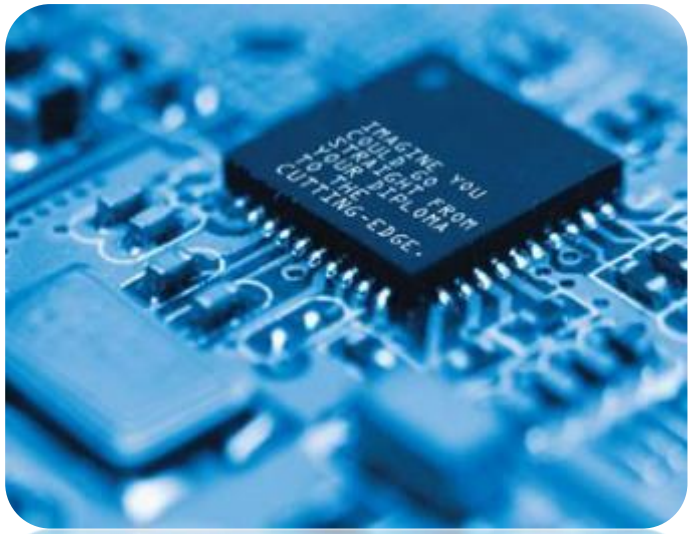
attractive salary incl. social benefits

training and networking

Fellows are normally nationals of the Member States of CERN. There also exist a limited number of places for Fellows from non-Member States.

Committees in May and November

Technician Training Experience



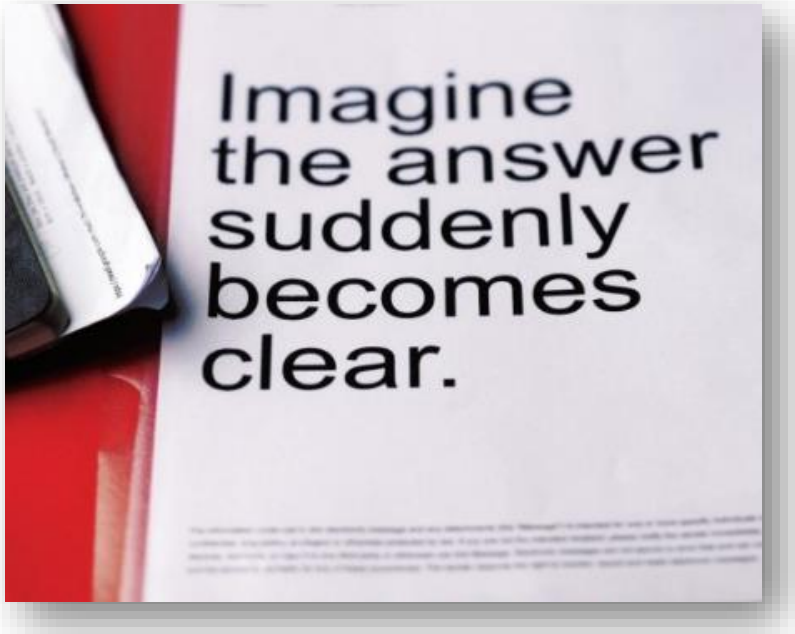
"I never imagined the possibilities CERN would offer me."

~30-50 positions/year

FIELDS :	Mechanics, electronics, electricity, etc.
ELIGIBILITY :	Technical diploma
	no more than 4 years relevant experience
SELECTION:	All applications for TTE opportunities will be considered by a panel of CERN specialists.
FEATURES :	An initial contract of one year renewable for a second year
	Project with CERN supervisor
	Training and networking (on the job, formal, languages)
	Employment contract with attractive salary incl. social benefits

Committees in June and December

Staff positions

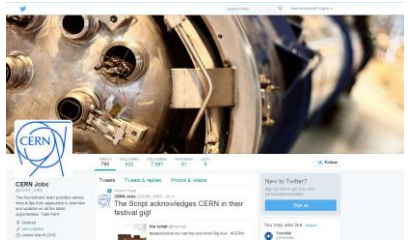


"It's the chance to focus on being the very best at what you do."

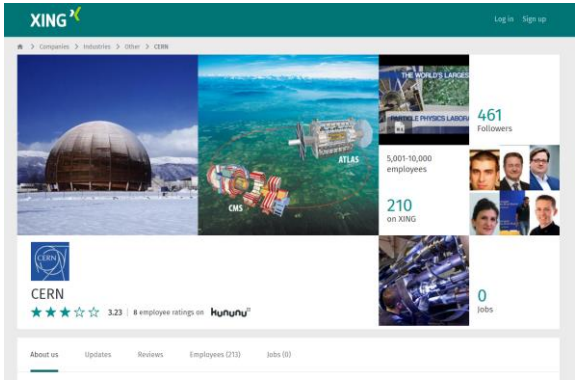
~ 150 positions/year

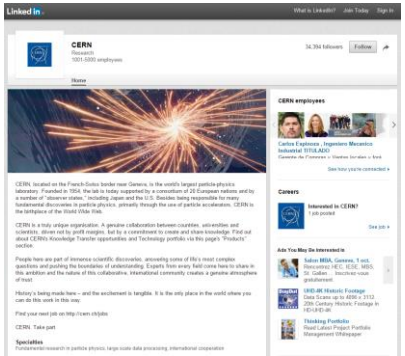
FIELDS :	physics, engineering, computing, technicians, administrative staff
ELIGIBILITY :	from apprenticeship to PhD
SELECTION:	advertised on cern.ch/jobs **application via ATS** **Asynchronous video-screening (Sonru)** **Interview at CERN**
FEATURES:	up to 5 year initial limited duration contract competitive salaries incl. social benefits relocation expenses training (language courses, technical training)

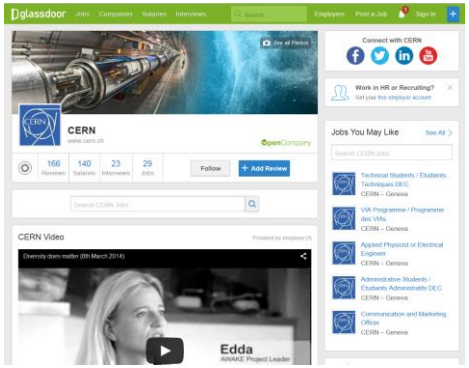
Tell your friends!



@CERN_JOBS








LHCb
ATLAS
CERN Meyrin
CERN Prévessin
SPS 7 km
SUISSE
FRANCE
CMS
ALICE
LHC 27 km
Thank You!
CERN
Accelerating Science and Innovation