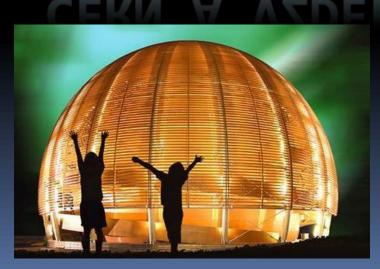




CERN A VZDELÁVANIE





CERN Education Activities

Scientists at CERN

Academic Training Programme







Young Researchers

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



Physics Students

Summer Students Programme



CERN Teacher Schools

International and National Programmes



Návšteva CERNu

- CERN je možné navštíviť virtuálne, alebo reálne
 - Vzdelávacie materiály na webe
 - Súkromné návštevy v expozícii Microcosmos
 - Návštevy so sprievodcom
 - Návštevy organizované školami
 - Program pre študentov
 - Program pre učiteľov

Kde začať - www.cern.ch





Návštevy so sprievodcom

 CERN organizuje návštevy so sprievodcom pre súkropmné osoby a školy

Prednáška

Návšteva 2 pracovísk v CERNe



S'cool lab

S'cool lab

- Možnosť rozšíriť program návštevy o prácu v laboratóriu
- Množstvo experimentov (supravodivosť, detekcia častíc, meranie náboja elektrónu…)
- Študenti pracujú v 2-4 členných skupinkách
- Potrebná je teoretická príprava pred príchodom do CERNu
- Študijné materiály a informácie na scool.web.cern.ch
- Pozor: termíny sú notoricky obsadené, treba sa registrovať dopredu (ale max 36 ľudí)





home.cern/students-educators

- Spolupráca s Univerzitami
- Výchova študentov v rámci rôznych programov
 - CERN poskytne tému, podmienky na prácu a školiteľa
 - Program pre vysokoškolských aj postgraduálnych študentov
- Letný program pre študentov
 - Obvykle 2–3 študenti zo Slovenska /rok
 - Pre študentov od 3 ročníka (bacalorea degree) univerzitného štúdia

Summer Student Programme

Participate in the day to day life of a research team and follow lectures. ~300 positions/year



"Can't imagine a better way to spend my summer"

Over 6000 young scientists have benefitted to date...

Fields

physics (incl. particle physics) =2/3 of students engineering, computing

Length

8 to 13 weeks, during the summer

Eligibility

3 years of full-time studies at university level

Features

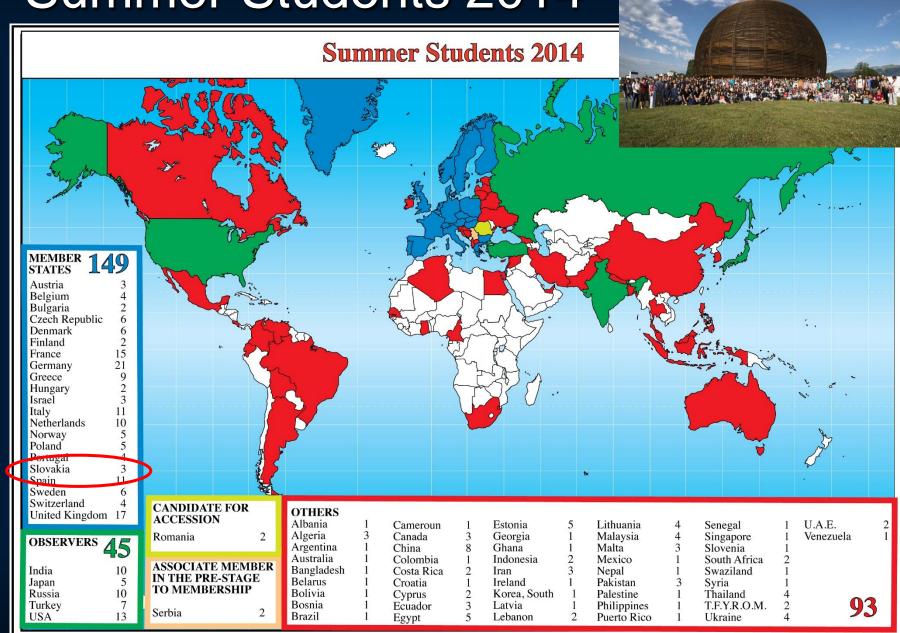
high-quality lecture programme visits and workshops living allowance accommodation at the CERN hostel

Application & Selection

Deadline January. Web selection by the supervisors, Offers in March



Summer Students 2014





home.cern/students-educators

- Program pre diplomantov
 - 4-12+14 mesiacov
 - Aplikovaná a experimentálna fyzika, computing, inžinierske smery
- Program pre administratívnych študentov
 - 2-12+14 mesiacov
 - Pre študentov bakalárskych a magistérskych programov
- Doktorandské štúdium 6-36 mesiacov
- Tréning pre rôzne profesie
- Vzdelávacie programy pre učiteľov
 - Využivané aj slovenskými učiteľmi

Technical Student Programme

For students looking for a practical training assignment or who would like to write their bachelor or masters thesis at CERN

~200 positions / year



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

Fields

Computing (50% of the students)
Engineering
physics (excl. theory and particle physics)

Length

4 to 14 months for technical students

Eligibility

18 months of technical undergraduate studies

Features

technical project with a CERN supervisor a living allowance

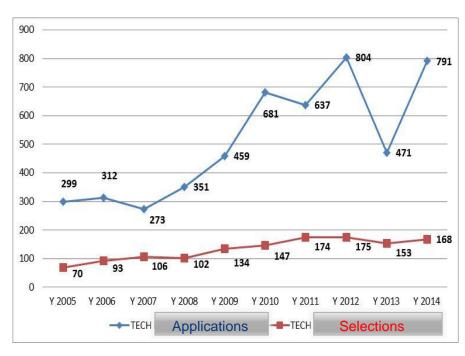
Application & Selection

2 Committees: June and December

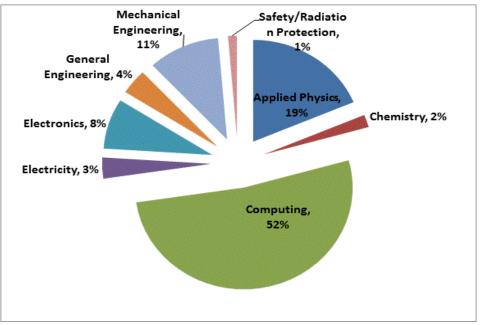


Technical Student Programme

Applications vs. Selections



Students by Discipline

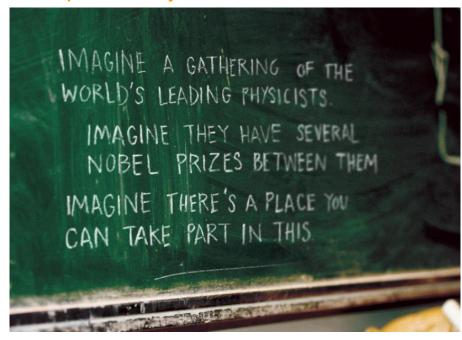


HRT October 2014



Doctoral Student Programme

For students who would like to spend 3 years at CERN to work on their thesis ~60 positions/year



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

Fields

physics (excl. theory and particle physics), engineering, computing

Length

3 years

Eligibility

enrolled on a doctoral programme in a Member State university

Features

a PhD thesis project with a CERN supervisor & university supervisor a living allowance

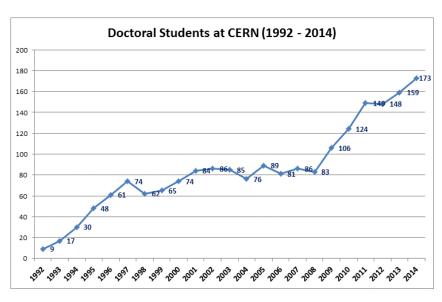
Application & Selection

2 Committees: June and December



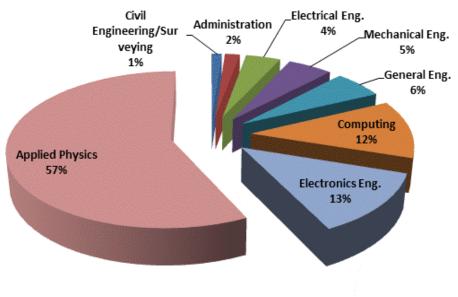
Doctoral Student Programme

Students at CERN



HRT extraction on 01/01

Students by Discipline



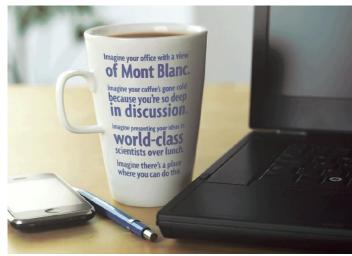
HRT October 2014



Fellowship Programme

For recent graduates who would like to spend 2-3 years in a world renowned center of scientific excellence at the forefront of technology

~220 positions/year



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

Fields

Physics (incl. Theory and Particle Physics), engineering, computing

Length

Usually 2 years (max 3)

Eligibility

BSc, MSc or PhD (max 10yrs experience)

Features

Employment Contract

Career Development Programme

Project with a CERN supervisor

Application & Selection

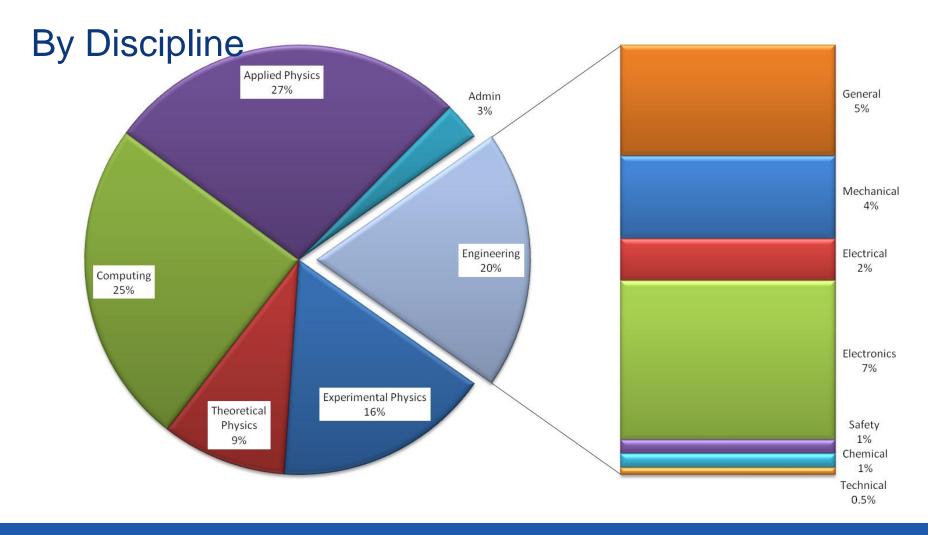
2 Committees: May & November



<u>To mention:</u> Marie Curie Fellowships: funded by the European Commission under the Framework programmes. Goal: training of scientisits.



Fellowship Programme





STAFF Employment

JOBS at CERN

Opportunities for Engineers, Technicians, Administrative personnel

~100 positions/year



EMPLOYED MEMBERS OF PERSONNEL RECRUITED FROM OUR 21 MEMBER STATES

Eligibility: > from apprenticeship to PhD

Selection: > vacancies published on the WEB

Features: - Maximum 5 year contract

- competitive salaries incl. social benefits

- training possibilities (language courses, technical

training)

- help with integration: housing service, social service



STAFF Employment

Examples of professions at CERN

Information Officer

Administrative Assistant

Electronics Engineer

Technical Engineer (Electronics)

Computing Engineer

Lawyer

Vacuum Technician

Firefighter

Machine Operator

Radioprotection Engineer

Translator

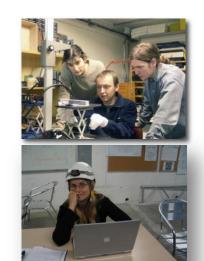
Physicist





Overview

STAFF ~ 2500	Recruited from our Member States, paid by CERN with limited duration or indefinite contracts.
Fellows ~ 650	recent graduates in physics and engineering, normally staying two years.
Students ~ 600	Come for a practical training assignment, write their Diploma or PhD thesis at CERN.
Associates ~ 220	Scientific and Corresponding Associates: senior scientists coming on leave of absence. Project Associates: Physicists, engineers and technicians sent by their home institutes for periods of up to 3 years.
USERs ~ 11.000	Sent by their universities to "use" the CERN facilities > 80 Nationalities und > 600 Univ. and Institutes.

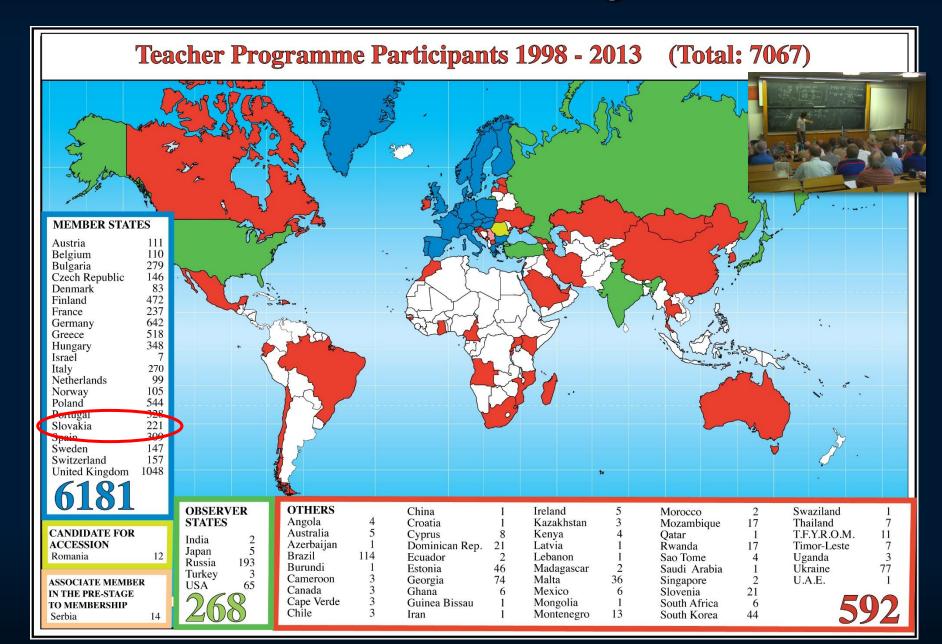


Who works at CERN?





CERN Teacher Programme





Elektronické vzdelávanie a live kurzy

