



CERN & Society

**SPREADING THE CERN SPIRIT
OF SCIENTIFIC CURIOSITY
FOR THE INSPIRATION AND
BENEFIT OF SOCIETY.**



EDUCATION &
OUTREACH



INNOVATION &
KNOWLEDGE EXCHANGE



CULTURE &
CREATIVITY

CERN & Society Foundation

CERN has a long tradition of scientific excellence, generated by a culture of openness and knowledge-sharing across borders, and nurtured through education and training. In addition to its core research work, CERN organises activities that stimulate people's engagement with science.

In 2014, CERN established the **CERN & Society Foundation**, a non-profit charitable foundation that enables private support for a variety of projects in the fields of **scientific education & outreach, innovation & knowledge exchange, culture & creativity.**

Our goals are to:

- **Support young talent in STEM** (Sciences, Technology, Engineering and Maths) in countries from all over the world, including underprivileged communities.
- **Overcome the STEM crisis**, which according to the European Commission, will lead only in Europe to a shortage of 850,000 STEM professionals by 2020.
- **Foster creative synergies between science and culture**, inspiring and enriching the cultural landscape.
- Share scientific knowledge and **find solutions for a better world.**

Learn more at cern.ch/giving

Our achievements in 2017



**1500+ high school
students**
engaged in STEM
subjects



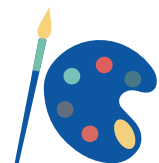
90 teachers
trained



39 summer students
supported from all
over the world



**150+ hours of Open
Source Software**
developed



5 artists
in residency



Training with European Network of Light Ion Hadron Therapy (ENLIGHT) Building a patient-centric approach to cancer treatment

ENLIGHT

Cancer is not a single disease, each patient should benefit from a personalised treatment, which requires the collaboration of scientists from many fields. ENLIGHT is the unique European platform that brings together experts from medicine, biology, physics and data science.

_sharing knowledge

The training programme offered by ENLIGHT gives access to state-of-the-art knowledge in cancer treatment. It is delivered by renowned experts and experienced practitioners.

Students can network, learn and collaborate across institutes and countries for both personal and professional growth.

> The benefits of ENLIGHT Training:

- students acquire **multidisciplinary, state of the art knowledge and techniques for cancer care** from experts in the field;
- students join ENLIGHT help to enlarge a **worldwide network of young scientists**, importantly in LMICs without such advanced research facilities;
- students can **transfer their newly acquired knowledge and network back to their home countries** for improved cancer care around the world; and
- the creation, and encouragement, of **links between fundamental research and efforts to find solutions for the benefit of society**.

_why

- No single centre has access to the wealth of information provided by ENLIGHT.
- Specialised personnel and researchers need to have access to state-of-the-art knowledge in order to bring it to the patient effectively and quickly
- The number of specialised centres is steadily increasing and trained experts are absolutely needed

_how

- **1-week Introductory Training at CERN / 30 students**
- **2-day Advanced Training at ENLIGHT Annual Meeting / 80 participants**
- **3-4 weeks hands-on Internship / 3 researchers**

_budget

Introductory Training (30 students/ 1 week)	CHF 60'000
Advanced Training (50 students/ 2 days)	CHF 18'000
Internship (3-4 weeks)	CHF 18'000
Biannual publication of HIGHLIGHTS Magazine ¹	CHF 12'000
TOTAL	CHF 108'000

¹ENLIGHT produces a biannual "HIGHLIGHTS" magazine to promote and inform an interested community of medical doctors, biologists, physicists and IT experts. HIGHLIGHTS has high visibility; distributed to over 600 members, in more than 100 institutes, in over 30 countries, and to CERN Council.