

# 8th Workshop on Collaborative Scientific Software Development and Management of Open Source Scientific Packages



**19 October - 17 December 2021**  
**An ICTP Virtual Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/9700/>  
[smr3646@ictp.it](mailto:smr3646@ictp.it)

Writing software has become central to research in many fields of science. This school aims to give early-career scientists an introduction to a variety of topics that help them to write efficient, clean, maintainable and long-lived code that is useful beyond solving an immediate problem. In a mixture of talks and many hands-on sessions, the focus lies on showing best practices and building fundamental skills in creating, extending and collaborating on modular and reusable software.

## Topics:

- Effective collaborative development with multiple co-authors
- Python / shell scripts as glue code
- Modular, reusable software design
- Software optimization
- Version control and release cycles
- Automated testing frameworks
- Structured documentation
- Management of open source scientific packages
- Continuous integration & deployment
- Conversational development

## How to apply:

Online application:  
<http://indico.ictp.it/event/9700/>

Female scientists are encouraged to apply.

## Registration:

There is no registration fee.

Participants are expected to have some experience in a programming language, this course is not suitable for beginners in programming.

## Directors:

- A. CORBETTA, Eindhoven University of Technology, Netherlands
- I. GIOTTO, ICTP, Trieste, Italy
- D. GRELLSCHEID, University of Bergen, Norway & ICTP, Trieste, Italy

## Local Organiser:

- I. GIOTTO, ICTP, Trieste, Italy

## Speakers:

- A. CORBETTA, Eindhoven University of Technology, Netherlands
- A. FARNUDI, École normale supérieure de Lyon, France & Sharif University of Technology, Iran
- D. GRELLSCHEID, University of Bergen, Norway & ICTP, Italy
- S. HOLMGEIRSDOTTIR, Sensar Marine, Norway
- S. RICHTER, University of Stockholm, Sweden

## Tutors:

- S. ALIEI, ICTP, Italy
- O.D. ARBELÁEZ ECHEVERRI, Core of Science, Colombia
- I. GIOTTO, ICTP, Italy
- C. JARNE, Universidad Nacional de Quilmes, Argentina
- E. MENKAH KNUST, Ghana
- W.F. OQUENDO, Universidad de la Sabana, Colombia
- A. SARTORI, ICTP, Italy
- J.M. SOLANO-ALTAMIRANO, Benemérita Universidad Autónoma de Puebla, Mexico

## Deadline:

**1 October 2021**

