

## General Info

<b>Organized by:</b> University of Salento
<b>Name of the Advanced School</b> Electron microscopy and complementary techniques for biological systems
<b>Objective and learning goals</b> The school will provide lectures, case discussions, practical sessions and live microscope and sample preparation demonstrations. Hand-on activities will be organized on the use of the new instruments installed at the University of Salento and including Cryo-FIB, Imaging Flow Cytometer, Multi-analytical correlative platform integrated with FESEM, EDX, Raman and AFM system, sample preparation for Cryo-EM.
<b>Subject/scientific programme</b> The school will be divided into theoretical, class lectures and hand-on activities. The following different modules are scheduled: <ul style="list-style-type: none"> <li>• Basics of electron microscopy</li> <li>• Advanced and high-resolution electron microscopy</li> <li>• Sample preparation</li> <li>• Data management and processing and image analysis</li> <li>• Data analysis and interpretation</li> <li>• Research Infrastructures</li> <li>• Safety</li> </ul>
<b>Methods of carrying out the lessons</b> The school is organized into theoretical lessons and hand-on activities.
<b>Teachers</b> The lectures will be given by experts in the field from both research institutions, instrument manufacturers and application specialists.
<b>Duration</b> The duration of the school is five days over one week.
<b>Dates</b> To be defined, approximately end of 2024 (November/December).
<b>Lesson times</b> The lectures will be structured into morning and afternoon sessions typically lasting four hours each.
<b>Location</b> The lectures will be organized in Lecce and in the premises of the Department of Mathematics and Physics, University of Salento.
<b>Admission requirements</b> The admission to the school is open to scholars at different stages of education including graduate, post-graduate, Ph.D. students and post-doc researchers.
<b>Recruitment of participants</b> The school will be open to ten students who will be selected by a selection committee according to the criteria specified in the call for applications.
<b>Documentation to be submitted</b> The documentation to be submitted will be specified in the call for applications as soon as available.

**Evaluation of participants**

Participants will be selected taking into account their CV, cultural background, scientific skills and a motivational letter to be included to the application.

**Certificate of attendance**

A certificate of attendance will be delivered at the end of the school for those students who pass a final exam.

**Other information**

For further information on participation in the school, please refer to the call for applications as soon as available.

**Contact person**

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