A C O U S T I C S
M A S T E R D E G R E E

Master accredited by the French Ministry of Higher Education and Research with possibilities to continue for a PhD.

2 year Master program backed by four internationally recognized engineering schools.

8 research laboratories of Université de Lyon and CeLyA, an alliance of the main research teams working in acoustics in Lyon:

- LMFA
- LTDS
- CREATIS
- LGCB
- LVA
- LabTAU
- CRNL
- LAE

Training course recognized by major industrial companies, consultants and research laboratories.

O B J E C T I V E S

- To train in various recent fields of Acoustics.
- To be able to join a R&D department of a company or to continue with a PhD thesis carried out in a research laboratory or in collaboration with an industry.

S C I E N T I F I C  F I E L D S

- Engineering Acoustics: aeroacoustics, vibro-acoustics, building acoustics and non-destructive evaluation.
- Application of Ultrasound in Medicine.
- Sound Perception.

P R E R E Q U I S I T E S

- Bachelor degree (or equivalent) in Science or Engineering.
- Certified B1 level in English (CEFRL).

The “Centre Lyonnais d’Acoustique”, CeLyA, has been funded in 2011 as a “Laboratoire d’Excellence” by the French Ministry of Research.
**KEY POINTS OF THE ACOUSTICS PROGRAM**

**International program open to students from France and from abroad.**

- A significant part of the training promotes the gradual acquisition of **scientific communication in English**, especially in offering high-level scientific lectures in English with worldwide internship opportunities.

- Numerous **elective and specialized courses** during the second year, with support from the research teams of the Center Lyonnais d’Acoustique (CeLyA), and links between laboratories and industrial partners.

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<tr>
<th>S1</th>
<th>Sound and Acoustic Propagation</th>
<th>Signal and Speech Processing</th>
<th>Fundamentals of Mechanics</th>
<th>Continuum Mechanics</th>
<th>Language French English</th>
<th>Mgmt Project &amp; Comm</th>
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<tbody>
<tr>
<td>S2</td>
<td>Acoustic Modelling (Numerics, Project)</td>
<td>Vibrations</td>
<td>To go beyond: Musical Acoustics, Structures, Image Signal Processing, Adaptive Filtering...</td>
<td>Language French English</td>
<td>Internship in Lab</td>
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<td>S3</td>
<td>Advanced Acoustics</td>
<td>Specialization in Aeroacoustics, Sound Perception, Building Acoustics, Vibroacoustics...</td>
<td>Applications to Environmental Issues, Transportation...</td>
<td>General Course</td>
<td>Language French English</td>
<td>Mgmt Project &amp; Comm</td>
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<tr>
<td>S4</td>
<td>Research Internship</td>
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**Lyon is an international reference** in the field of acoustics covered by the Master. The associated laboratories skillfully combine fundamental research with industrial applications and weaved a large international network with other academic or non-academic research partners and with leading high-tech industries. Furthermore, students can select courses from all the institutions involved in this program, which offers a wide range of elective courses.

**Research training** with more than one semester of internship (in a research laboratory or a R&D department in industry, in France or abroad), and two training periods to be performed in a partner laboratory.

**CONTACTS**

**Program managers**
Pr. Christophe Bailly (Centrale Lyon)
Pr. Jean-Christophe Bera (Polytech)
Pr. Etienne Parizet (INSA)
Dr. Catherine Marquis-Favre (ENTPE)

**Management of applications**
scolarite.registration@listes.ec-lyon.fr

**More information**