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## École Polytechnique and ENS Louis-Lumière are launching 'Extended Cinematography', a new Master of Science & Technology programme

**FRANCE – In September 2025, École Polytechnique and ENS Louis-Lumière will be launching 'Extended Cinematography' (XCin), a new Master of Science & Technology programme. The aim of this new high-level sandwich course is to train image specialists capable of designing tomorrow's tools for virtual production in the audiovisual and film industries, in order to mix real and virtual scenes in real time on film sets, enabling directors to preview their creative ideas immediately.**

The audiovisual, film, video games and interactive media industries are constantly evolving technically, driven by innovative tools to produce increasingly dynamic visual narratives.

In this context, the MSc&T 'Extended Cinematography' programme offers cutting-edge multidisciplinary training, enabling students to acquire in-depth scientific knowledge related to the virtual production sector, at the intersection of computer graphics, computer vision, augmented reality and AI. Its aim is to train image specialists capable of understanding the creative challenges of filming, and of proposing and designing specific tools to meet the needs of future virtual production.

'Extended Cinematography (XCin) will train 'creative scientists' with a unique dual skill set: solid scientific and technical knowledge, combined with practical mastery of emerging 3D and digital technologies. Combining a multi-disciplinary approach and immersion in the business world through two years of work experience, this MSc&T course will enable its students to understand the challenges of the audiovisual ecosystem and will offer tools specific to the needs of players in the sector.

Spearheaded by research engineer Pascal Guehl for École Polytechnique, and by Vincent Lowy, film historian and director of ENS Louis-Lumière, this new course is the result of the France 2030 'La Grande Fabrique de l'image' call for projects, operated by the Caisse des Dépôts and the CNC, a project initiated by the government with the aim of making France a leader in filming, image production and training in film and audiovisual professions.

Grouped together in a single class of 15 people, students will be taught exclusively in English. The course will alternate between three-month academic periods and three-month professional placements in partner companies. Students will also be required to work on a creative project of their choice to put into practice the skills and techniques acquired during the programme.

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**ABOUT ÉCOLE POLYTECHNIQUE** / École Polytechnique, also known as L'X, is the leading French institution combining top-level research, academics, and innovation at the cutting-edge of science and technology. Its various undergraduate and graduate-level programs – Bachelor of Science, Ingénieur Polytechnicien (Master's level program), Master's, and PhD – are highly selective and promote a culture of excellence with a strong emphasis on science, anchored in humanist traditions. As a widely internationalized university, École Polytechnique offers a variety of international programs and attracts a growing number of foreign students and researchers from around the globe (currently 41% of students and 40% of faculty members). École Polytechnique offers an exceptional education to prepare bright men and women to excel in top-level key positions and lead complex and innovative projects which meet the challenges of 21st century society, all while maintaining a keen sense of their civil and social responsibilities. With its 23 laboratories, 22 of which are joint research units with the French National Center for Scientific Research (CNRS), École Polytechnique Research Center explores the frontiers of interdisciplinary knowledge to provide major contributions to science, technology, and society. École Polytechnique is a founding member of Institut Polytechnique de Paris. [www.polytechnique.edu](http://www.polytechnique.edu)