SAVE THE DATE September 6-10, 2021

Online PhD Summer School Going circular with **Critical Raw Materials**

The concept of material criticality was born from the concern that some materials (in particular, metals and minerals) may become increasingly difficult to access and/or afford, highly volatile in their price or in other ways no longer routinely available for production and technologies deployment. These constraints may undermine industrial competitiveness and implementation of strategic technologies for sustainable development, such as electric mobility or renewable energy.

> The transition to a circular economy is highlighted as a promising approach for material criticality mitigation. However, closing the loop of critical materials poses many challenges from technological complexity of recycling to financial, organizational, and operational constraints.



Raw materials



Collection and Recycling



Use and Reuse

The school aims to provide the opportunity to learn how circular economy approaches may assist a sustainable management of (critical) raw materials. In particular, the course will focus on circular economy approaches from a company and supply chain perspectives. The former refers to product design solutions, while the latter addresses approaches for development of closed-loop supply chains. These complex topics will be tackled from multiple perspectives: technological. economic, environmental, and regulatory.



Design



Production & Remanufacturing

Application deadline: July 16 Acceptance notification: July 26

Confirmation of participation deadline: August 6

For more information, please consult the webpage https://gcrm.lakecomoschool.org/ or contact carol.maione@polimi.it









