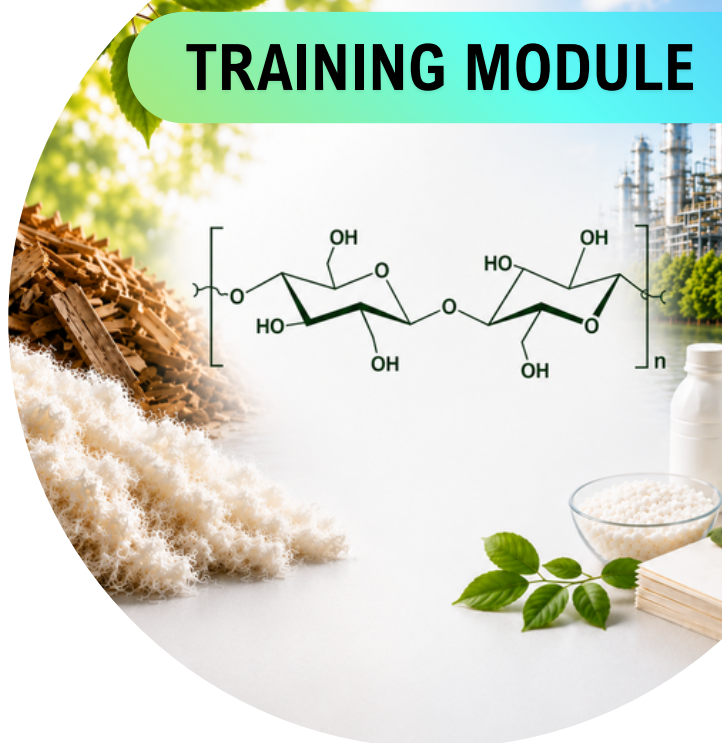


BIO-BASED RAW MATERIALS: CELLULOSE



- **Format:** Online self-learning module
- **Duration:** 2 hours
- **Target group:** Researchers
- **Level:** EQF 5 - 7
- **Provider:** University of Twente
- **Language:** English
- **Certificate:** Digital badge
- **Costs:** Free

Sustainability is no longer just a goal. It is a necessity to secure our future and that of the next generations. Driven by new regulations and growing awareness, industries across sectors are working to replace fossil-based raw materials with bio-based alternatives.

This training module explores the main characteristics and properties of emerging bio-based raw materials for the Chemical Industry, with a special focus on cellulose, the most abundant natural polymer on Earth, used across a wide range of industrial applications.

In this free online training module, you will get a clear introduction to cellulose and its role in the chemical industry. The module is organized into 7 sections, each paired with exercises to reinforce learning: from the basics of cellulose and its history, through production and commercial applications, to its physical and chemical properties, and finally the key functionalization reactions used to modify it.

**SCAN TO
START THE
FREE MODULE**

