

## Master in Materials science and engineering

# Biorefinery and biomaterials

### Presentation

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The aim of the Master's program in Biorefinery and Biomaterials (Master's Degree, One Year Graduate Program) is to train professionals specialising in the problems of biomass valorisation, in particular through the development and improvement of processes allowing its transformation into biomaterials, chemical products or energy sources.

This Master's program is available to students who have completed at least four years of higher scientific or 1 year of graduate studies (the equivalent of 240 ECTS credits) education in France or abroad. It is a degree course of the Master in Materials Science and Engineering.

Several scholarships are available, in France or depending on the country of origin, to cover all or part of the tuition fees as well as the costs associated with the studies. This program also includes a final-year internship lasting 5-6 months, either in a company or in a laboratory, which pays around €600 a month if it takes place in France.

The training is part of the themes of the Laboratoire d'Excellence Tec21, de l'Institut Carnot Polynat, du CDP Glyco@Alps, de l'IDEX de l'Université Grenoble Alpes, et du pôle de compétitivité Chimie-Environnement Axelera. Enseignants académiques et industriels Grenoble INP - Pagora / Grenoble INP - Phelma / INSA Lyon / IMT Mines Albi / IFP Energies nouvelles / CEA Liten. Partenaires industriels (non exhaustif) Novamont, Dow Corning, Roquette, Cargill, JRS Rettenmaier, Smurfit Kappa, Solvay, Lafarge, Arjowiggings, L'Oréal, Tetra Pak, Arkema, Schneider Electric, Seppic, Novasep, Degremont, Condat Lubrifiant, Air Liquide, Siegwark, Fibre Excellence, Total, Soprema, Ahlstrom-Munksjö, CEA, CTP, FCBA, Xylem...

### Registration and scholarships

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#### Access conditions

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[skin.odf-uga:SKIN\\_ODF\\_CONTENT\\_PROGRAM\\_CANDIDATURE\\_LABEL](#)

See Grenoble INP – Pagora website (<https://pagora.grenoble-inp.fr/en/education/master#page-admission>) for more information on application timeline and procedures.

#### Prerequisites

All candidates must provide a certificate of English language level:

- Mandatory minimum level B1, level B2 strongly recommended, European standards.

Education : at least 4 years of higher scientific education or 1 year of graduate studies in chemistry, biochemistry, processes, polymeric materials or equivalent subjects

#### Target group

The master's SGM - Biorefinery and biomaterials course is open to French and foreign students.

It is available to students who have completed at least four years of higher scientific education in France or abroad. It is a degree course of the Master in Materials Science and Engineering.

## Expenses

EU citizens: €243 per year

Non-EU nationals: €3770 per year (Partial payment of €500 in the beginning of July)

## Further studies

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PhD in Materials Science and Engineering

# [I-MEP2](#) Doctoral School

Engineering - Materials, Mechanics, Environment, Energetics, Processes, Production.

## Practicals informations :

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- > Component : Grenoble INP - Phelma (Physique, électronique et matériaux), Grenoble INP - Pagora (Ecole internationale du papier, de la communication imprimée et des biomatériaux)
- > level : Bacalaureate +5
- > Duration : 1 year
- > Course type : Initial and Continuing Education, Education in apprenticeship
- > Location(s) : Grenoble - University campus

## Contacts

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### Program director

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### Administrative contact

Scolarité Master SGM - Pagora

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## Program

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Full program at the following address: [https://](https://pagora.grenoble-inp.fr/en/education/master#page-programme)

[pagora.grenoble-inp.fr/en/education/](https://pagora.grenoble-inp.fr/en/education/master#page-programme)

[master#page-programme](https://pagora.grenoble-inp.fr/en/education/master#page-programme)