



POLITECNICO
MILANO 1863

SCHOOL of INDUSTRIAL and INFORMATION
ENGINEERING

Chemical Engineering

Open Day 2021

<http://www.ccs-chimica.polimi.it/>



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The Chemical Engineer - *the Universal Engineer*

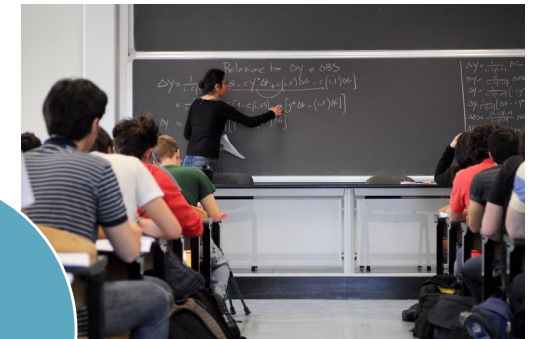
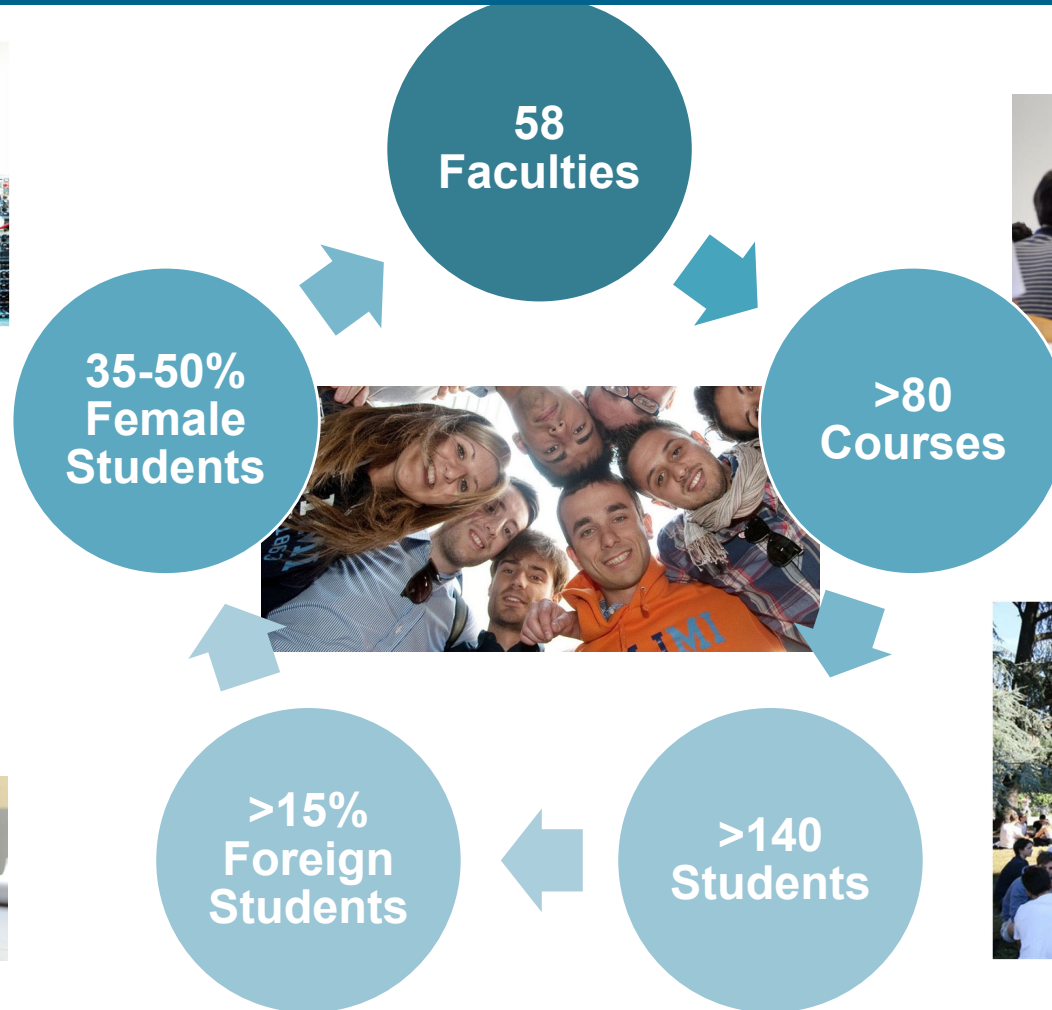


Master Degree in Chemical Engineering



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<https://www.ccs-chimica.polimi.it/>



International Rankings



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PoliMi, an Italian, European and World leading university
Chemical Engineering QS Rankings (2021)



1°

10°

37°

Excellence in Research (Areas)

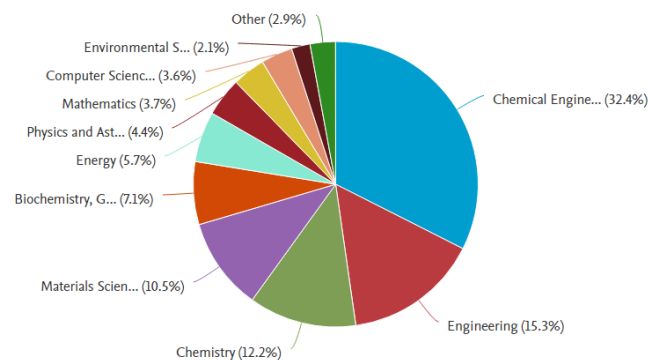


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Keywords

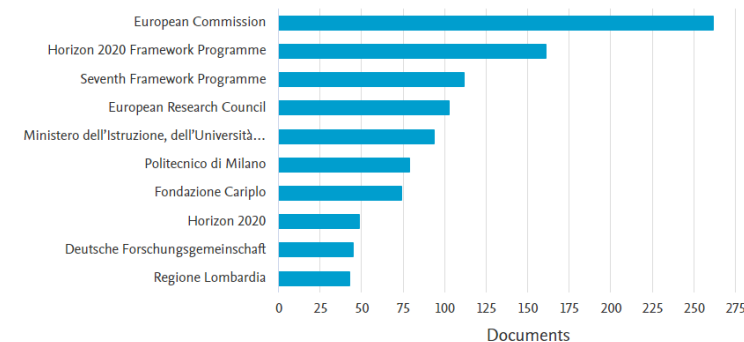
- Chemical process design and optimization
- Industrial separation processes
- Heterogeneous catalysis
- Homogeneous catalysis
- Sustainable process design
- Energy
- Renewable energy
- Circular economy processes
- Environment and pollution mitigation
- Chemical reaction engineering
- Applied physical chemistry
- Polymers chemistry
- Applied chemical kinetics
- Odour monitoring and modelling
- Drug delivery
- Risk and safety in process industry
- Nanomaterials
- Materials
- Organic and inorganic chemistry
- Analytical chemistry
- Surface chemistry
- Electrochemistry

Documents by subject area

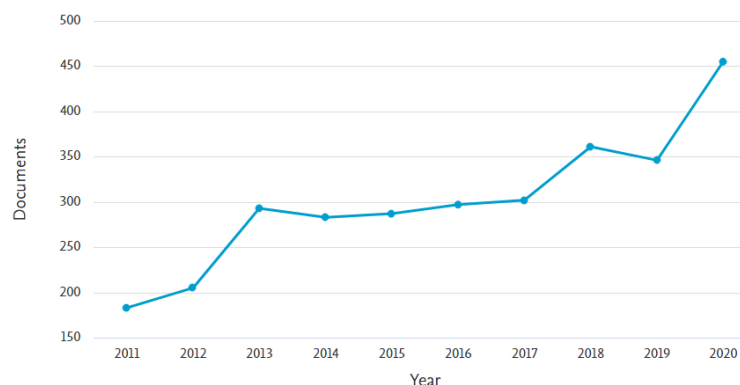


Documents by funding sponsor

Compare the document counts for up to 15 funding sponsors.



Documents by year



Source: scopus.com

Years: 2011-2020

Num. Documents: 3012



What do students say about us?



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Graduated students in Chemical Engineering

- ~90% is completely satisfied by the education career
- >80% would chose it again (average PoliMi 74%)
- **97% «Degree fits work»** rating (among the highest at PoliMi)

On average, our graduates are more satisfied about their education compared to other PoliMi students!

Job opportunities



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Chemical Industry

Pharmaceutical Industry

Energy Industry

Materials industry

Transport Industry

Safety

Research

Petrochemical Industry

Oil&Gas Industry

Cosmetics Industry

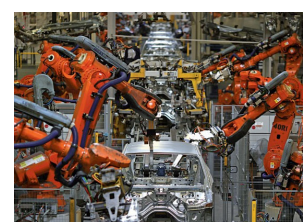
Textile Industry

Food&Beverage Industry

Metals Industry

Environment

Chemical engineering is the process engineering: you learn methodologies of chemico-physical transformation of matter, aimed at the production of material goods, supply of services, risk prevention, reduction of environmental impact,



Some stakeholder...



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wood.

CASALE

P&G



lyondellbasell

tenova



ExxonMobil
Energy lives here™



JACOBS®

Air Liquide
creative oxygen

KraftHeinz



...

Employment Statistics (2020)



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*2018 Graduates

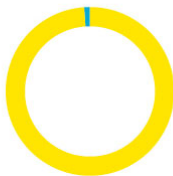
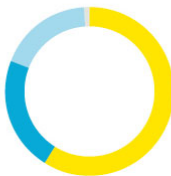
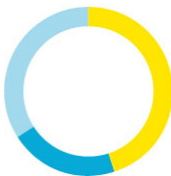
CHEMICAL ENGINEERING

EMPLOYMENT STATISTICS 2020 - MASTER OF SCIENCE GRADUATES

In 2018 126 students (115 Italian and 11 international) obtained the Master's degree in Chemical Engineering. Total respondents to the annual employment survey were 91 (coverage rate 72%).

Graduates' Profile: 40% female and 60% male; average age of graduation: 24,9 years; average duration of studies: 2,2 years; average graduation marks: 106,7/110; 47,6% carried out an internship during their studies.

EMPLOYED*	EMPLOYED WITHIN 6 MONTHS*	NET MONTHLY SALARY
 95% <small>* 1 year after graduation, except students</small>	 92% <small>* Calculated on employed</small>	 €1,660

EMPLOYMENT STATUS	CONTRACT TYPE	COMPANY SIZE
 Employee 99% Self-employed 1%	 Permanent 59% Fixed-term 22% Apprenticeship 18% Other* 1% <small>* Project based, occasional collaboration</small>	 1-250 45% 251-1.000 21% +1.000 34%
WHERE THEY WORK	TOP 5 SECTORS	TOP 5 AREAS OF EXPERTISE
Italian graduates working abroad 7% International graduates working in Italy 50%	Oil & gas 29% Chemistry 18% Mechanics and Installation 10% Pharmaceutical and Cosmetics 5% Electronics and Automation 4%	Design 56% Research and Development 29% Operations 23% Planning 19% Commercial, Sales, Purchases 17%

...5 Years After



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CHEMICAL ENGINEERING

WHAT IS THE EMPLOYMENT SITUATION OF CHEMICAL ENGINEERING GRADUATES 5 YEARS AFTER GRADUATION?

The following data has been extracted from the 2020 Employment Survey on 2014 Graduates, interviewed 5 years from graduation. Full details on the website <http://cm.careerservice.polimi.it/en/employment-statistics/>
In 2014, 118 Italian students obtained a Master's degree in Chemical Engineering at Politecnico di Milano. Total respondents to the survey were 64 (coverage rate 54%).

EMPLOYMENT RATE



NET MONTHLY SALARY

€2,286**

HAS INCREASED BY €649*

PERMANENT CONTRACT



WORK IN ITALY



SATISFIED WITH SPECIFIC DEGREE: 89%

Education and training acquired at the university is adequate for the current job

DEGREE FITS WORK: 97%

In order to carry out their job, they need their qualification or an equivalent one

* Compared to data from survey submitted 1 year from graduation
** Standard deviation 646

5 ANNI DOPO: I LAUREATI POLIMI NEL MONDO DEL LAVORO

WHAT HAVE CHEMICAL ENGINEERING GRADUATES DONE IN THESE 5 YEARS?



THEY HAVE CHANGED THEIR JOB AN AVERAGE OF 1.2 TIMES

MAIN REASONS:



THEY HAVE IMPROVED THEIR PROFESSIONAL SITUATION:



***2014 Graduates**

CareerService
www.careerservice.polimi.it

Employability



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University	Average Gross Salary [€] 2019	Variation from National Average
Università Commerciale Luigi Bocconi - Milan	35081	+ 15.2%
LUISS Guido Carli - Rome	32980	+ 8.3%
Politecnico di Milano - Milan	32796	+ 7.7 %
...

Source:
*Osservatorio
JobPricing 2019*

Master Degree	Average Gross Salary [€] 2019	Variation from National Average
Management Engineering	32665	+ 7.3%
Chemical and Materials Engineering	32063	+ 5.3%
Statistical Sciences	31962	+ 5.0 %
Mechanical, Naval and Aerospace Eng.	31887	+ 4.7%
Economic Sciences	31574	+ 0.6%
...

Employability



Average Gross Salary 2019 (k€) by Age and University

University	25-34	35-44	45-54	Increment from 25-54
Università Cattolica del Sacro Cuore	32.1	42.7	58.6	82%
LUISS Guido Carli	33.0	42.5	57.1	73%
Università degli Studi di Verona	29.7	38.9	50.9	71%
Università Commerciale Luigi Bocconi	35.1	45.9	60.0	71%
Politecnico di Torino	31.6	42.1	53.1	68%
...
Università degli Studi di Milano	30.2	39.3	50.3	66%
...
Politecnico di Milano	32.8	43.1	53.9	64%*
	3rd	2nd	3rd	

***Chemical Engineering + 87%**

University Payback Index (UPI) (Years)

University	25-34	35-44
Politecnico di Milano	13.0	14.2
Università Commerciale Luigi Bocconi	13.5	14.6
Politecnico di Torino	13.7	14.8
...

Source: *Osservatorio JobPricing 2019*

Employability

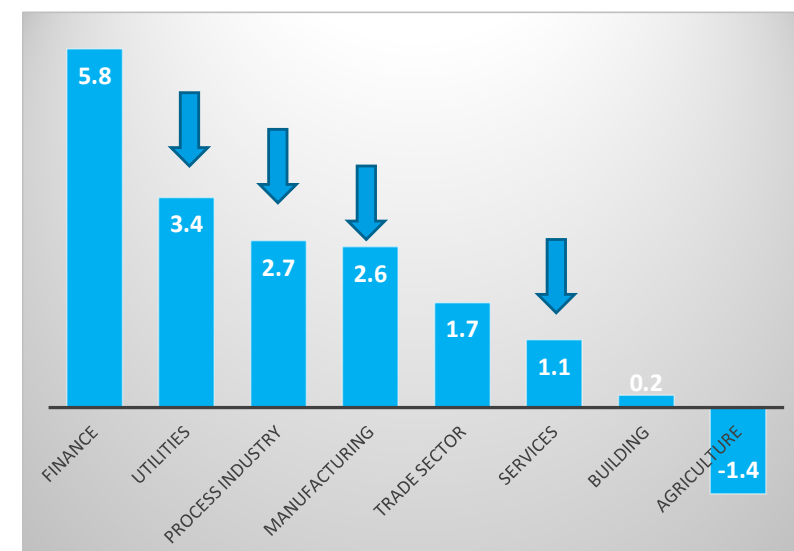


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Average Gross Salary 2019 (k€) by Industry

Industry	Average Gross Salary 2019 (k€)
Banks and Finance	43.3
Pharmaceutical and Biotechnology	39.3
Engineering	38.2
Oil & Gas	38.1
...	...
Chemical Industry	33.6
Energy and Environmental Services	32.1
...	...
Gums and Plastics	30.8
Machineries, Industrial Plants construction	30.5
Metallurgy and Iron Metallurgy	29.7
Food and Beverage	29.6

Average Gross Salary, trends 2015-2019





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Programme structure





Others...

Bachelor of Science -
Ingegneria Chimica
(3 years)

**Master of Science -
Chemical Engineering
(2 years)**

Doctor of Philosophy, PhD -
Industrial Chemistry and
Chemical Engineering
(3 years)

- One Track
- 180 CFU / 15 to be freely chosen
- **Possible internal or external internship**

- In English since 2014
- 50 CFU for compulsory courses (mathematics, mechanical, civil engineering and chemical engineering)
- 3 Tracks: Process Engineer; Product Engineer; Design Engineer
- 50 CFU to be freely chosen (AMB (Environment), BIO (Biology), DI (Innovative Teaching), PROC (Process), PROD (Product), SIC (Safety) e UO (Unit Operation))

+

Master Degree Thesis
20 CFU: central moment of training, exciting research experience within internationally recognized research groups

Excellence in Research (Labs)



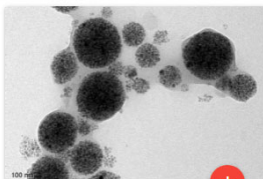
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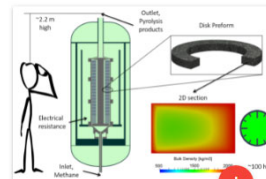
AOCL
Applied Organic Chemistry
Laboratory



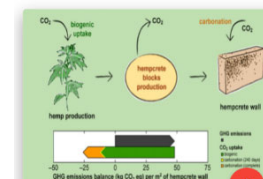
BiocatLab
Laboratorio di Biocatalisi per la
Sintesi Organica



CFALab
Laboratorio di Chimica Fisica
Applicata



CRECK
Chemical Reaction Engineering
and Chemical Kinetics Group



Mat4En2
Materiali per l'Energia e
l'Ambiente



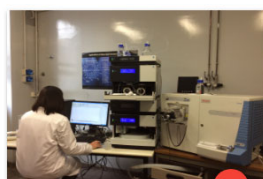
eRAM Lab
experimental Risk Assessment
and Management Lab



Fluoritech
Fluoritech Laboratory



GASP
Group on Advanced Separation
Processes & GAS Processing



ISCaMaP
Innovative Sustainable
Chemistry and Materials and
Proteomics



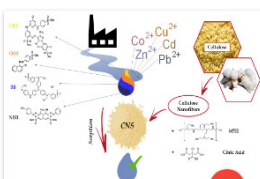
Laboratory
of Catalysis and
Catalytic Processes **LCCP**



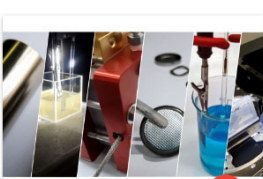
NMR Group
NMR Group



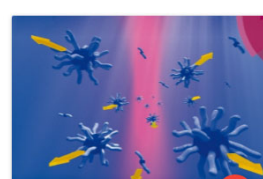
Olfattometrico
Laboratorio Olfattometrico



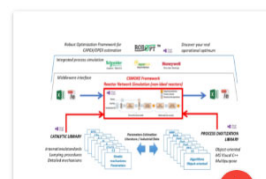
OrganicSCM Lab
Organic Synthesis, Catalysis, and
Materials Laboratory



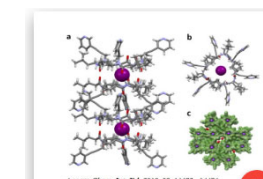
SEE lab
Surface and Electrochemical
Engineering Laboratory



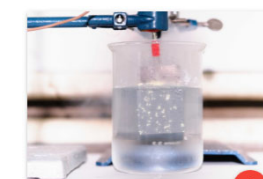
Soft Matter
Laboratorio Soft Matter



SUPER TEAM
Sustainable Process Engineering
Research Team



SupraBioNanoLab
Laboratory of Supramolecular
and Bio-Nanomaterials



SurfaceLAB
Laboratorio di Ingegneria delle
Superfici ed Elettrochimica
Applicata "Roberto Piontelli"

1st Year



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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
096118	B	ING-IND/24	CHEMICAL REACTION ENGINEERING AND APPLIED CHEMICAL KINETICS	1	10.0	10.0
096119	C	MAT/05	ADVANCED MATHEMATICAL ANALYSIS	1	5.0	5.0
096121	C	ICAR/08	MECHANICS OF SOLIDS AND STRUCTURES II	2	5.0	5.0
096122	C	ING-IND/13	APPLIED MECHANICS	2	10.0	10.0
--	--	--	Courses to be chosen from AMB/SIC/PROD*	--	--	10.0
--	--	--	Courses to be chosen from - PROC	--	--	10.0
--	--	--	Courses to be chosen from - UO	--	--	10.0

***10 CFU in Group PROC for Process Engineer**
***10 CFU in Group SIC for Design Engineer**
***10 CFU in Group PROD for Product Engineer**

Design Engineer – 1st Year



POLITECNICO
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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
096118	B	ING-IND/24	CHEMICAL REACTION ENGINEERING AND APPLIED CHEMICAL KINETICS	1	10.0	10.0
096119	C	MAT/05	ADVANCED MATHEMATICAL ANALYSIS	1	5.0	5.0
096121	C	ICAR/08	MECHANICS OF SOLIDS AND STRUCTURES II	2	5.0	5.0
096122	C	ING-IND/13	APPLIED MECHANICS	2	10.0	10.0
--	--	--	Courses to be chosen from - Group SIC	--	--	10.0
--	--	--	Courses to be chosen from - Group PROC	--	--	10.0
--	--	--	Courses to be chosen from - Group UO	--	--	10.0

Product Engineer – 1st Year



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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
096118	B	ING-IND/24	CHEMICAL REACTION ENGINEERING AND APPLIED CHEMICAL KINETICS	1	10.0	10.0
096119	C	MAT/05	ADVANCED MATHEMATICAL ANALYSIS	1	5.0	5.0
096121	C	ICAR/08	MECHANICS OF SOLIDS AND STRUCTURES II	2	5.0	5.0
096122	C	ING-IND/13	APPLIED MECHANICS	2	10.0	10.0
--	--	--	Courses to be chosen from - Group PROD	--	--	10.0
--	--	--	Courses to be chosen from - Group PROC	--	--	10.0
--	--	--	Courses to be chosen from - Group UO	--	--	10.0

2nd Year



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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
097538	B	ING-IND/27	INDUSTRIAL ORGANIC CHEMISTRY	1	10.0	10.0
097540	B	ING-IND/25	CHEMICAL PLANTS II	1	10.0	10.0
--	--	--	Courses to be chosen from - AMB	--	--	20.0
--	--	--	Courses to be chosen from - BIO	--	--	
--	--	--	Courses to be chosen from - PROD	--	--	
--	--	--	Courses to be chosen from - PROC	--	--	
--	--	--	Courses to be chosen from - SIC	--	--	
--	--	--	Courses to be chosen from - UO	--	--	
--	--	--	Courses to be chosen from <i>Innovative Teaching (DI)</i>		5.0	

Constraints	CFU
Choices - AMB	10.0
Choices - PROC	15.0
Choices - UO	10.0
Choices - AMB, BIO, DI, UO, PROC, PROD, SIC	15.0

*** Different CFUs distribution according to Procees/Design/Product**

Design Engineer – 2nd Year



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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
097538	B	ING-IND/27	INDUSTRIAL ORGANIC CHEMISTRY	1	10.0	10.0
097540	B	ING-IND/25	CHEMICAL PLANTS II	1	10.0	10.0
--	--	--	Courses to be chosen from - Group AMB	--	--	20.0
--	--	--	Courses to be chosen from - Group BIO	--	--	
--	--	--	Courses to be chosen from - Group PROD	--	--	
--	--	--	Courses to be chosen from - Group PROC	--	--	
--	--	--	Courses to be chosen from - Group SIC	--	--	
--	--	--	Courses to be chosen from - Group UO	--	--	
--	--	--	Courses to be chosen from <i>Innovative Teaching (DI)</i>		5.0	

Constraints	CFU
Choices in Group - AMB	10.0
Choices in Group - PROC	10.0
Choices in Group - UO	15.0
Choices in Groups - AMB, BIO, DI, UO, PROC, PROD, SIC	15.0

Product Engineer – 2nd Year



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Code	Educational activities	SSD	Course Title	Sem.	CFU	CFU Group
097538	B	ING-IND/27	INDUSTRIAL ORGANIC CHEMISTRY	1	10.0	10.0
097540	B	ING-IND/25	CHEMICAL PLANTS II	1	10.0	10.0
--	--	--	Courses to be chosen from - Group AMB	--	--	20.0
--	--	--	Courses to be chosen from - Group BIO	--	--	
--	--	--	Courses to be chosen from - Group PROD	--	--	
--	--	--	Courses to be chosen from - Group PROC	--	--	
--	--	--	Courses to be chosen from - Group SIC	--	--	
--	--	--	Courses to be chosen from - Group UO	--	--	
--	--	--	Courses to be chosen from <i>Innovative Teaching (DI)</i>		5.0	

Constraints	CFU
Choices in Group - AMB	15.0
Choices in Group - PROC	10.0
Choices in Group - UO	10.0
Choices in Groups - AMB, BIO, DI, UO, PROC, PROD, SIC	15.0

How to enroll? Evaluation process



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As explained at point 6 (Enrolment) of the “Educational Rules” (find it on www.ingindinf.polimi.it), the admission to the Master of Science degree in Chemical Engineering at Politecnico di Milano undergoes an evaluation process based upon curriculum requirements and an assessment of the preparation of the student aimed to determine the eligibility of the applicant.

The final decision about the admission to the Master of Science degree shall be taken by an Evaluation Commission (*contact: prof. Carlo Giorgio Visconti, ammissioni-ccschimica@polimi.it*) set up by the Board of Studies.

Access Requirements (D.M. 22/10/2004 n. 270 art 6, D.M. 16/3/2007) art 6

1. Bachelor of Science (BSc, Laurea) or higher degree (MSc, Laurea Magistrale).

Note: The evaluation can be carried out under reserve also for students enrolled in Politecnico di Milano or other Universities BSc, if they are candidates in a Graduation session scheduled not later than 6 months, and not later than the deadline for the enrolment to the MSc program. The reserve is lifted when the BSc is earned. If the BSc is not earned before the deadline for the enrolment to the MSc program, the evaluation is lost and a new application for admission must be submitted.

How to enroll? Access requirements



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2. Additional requirements:

a1) only for Politecnico di Milano Bachelor students, who comes from a BSc program in “Ingegneria Chimica”, at least 105 CFU must be gained with an average grade $\geq 25/30$ before the end of the fall semester (primo semestre) of the second year and the Bachelor of Science Degree (Laurea) must be earned in 4 years maximum from the enrolment.

or

a2) for any student, graduation at the BSc no later than 31 October of the 6th year (12 semesters) after the first enrolment in any Italian university.

e.g. first enrolment in 09/2013: BSc should be obtained before 31/10/2019

Such requirement does not apply for candidates having a MSc.

b) Weighted Average (WA) not below the “adjusted” admission Score (SC),

defined as $SC = 22 + (\min(6, N) - 3)$

with N defined as the number of years (i.e. half of the number of the semesters) occurring from the year of first enrolment in any University to the achievement of the BSc Graduation (semesters end at April 30th or October 31st).

Note: this criterion does not apply if requirement a1 is satisfied.

How to enroll? Access requirements



c) certification of the English language proficiency.

The level of English language knowledge should be certified according to the standard fixed by the Politecnico's Academic Policies (see Politecnico website)

d) further subjects and knowledge not required.

Applicants can be admitted to the MSc in Chemical Engineering when their BSc degree programme is evaluated as being “consistent” with the study programme of the MSc degree course. The Evaluation Commission verifies the requirements, also ascertaining the need of imposing any prerequisite (i.e. additional compulsory modules) to fill possible gaps.

An applicant who has been assigned any prerequisites may attend “**Individual Courses**” in the period before the enrolment to the MSc (max 80 credits). The following opportunities exist:

- *earn credits related to the additional compulsory modules*. These credits shall be not accounted within the 120 credits required for the MSc degree;
- *earn credits by passing courses at the Master of Science level*. These credits (max 32), will be accepted to part of the 120 credits necessary for the Master of Science degree. Credits in excess of 32 could be only accepted as ‘over-limit exams’.

If an applicant does not pass the exams assigned as compulsory prerequisites within 18 months, he or she forfeits his/her right to admission totally and completely.

How to enroll? Evaluation process



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- Candidates with a BSc in Chemical Engineering issued by any Italian universities, who meet the requirements stated above, are automatically admitted to the Master of Science degree course.
- For candidates with other BSc (not in Chemical Engineering), in addition to meeting the above requirements, admission is subject to examination by Evaluation Commission.
- **If the requirements stated at either point a) [TIMING] or b) [AVERAGE] of the above list are not satisfied, the Commission will not admit the applicant to the Master of Science degree course, unless documentation testifying a proven exceptional case can be presented.**
The Commission may take into account a valid documentation showing clear exceptional conditions, justifying the non-compliance of the mentioned criteria and showing that the student has an adequate background. Such a documentation shall be attached to the admission application.

How to enroll? Evaluation process



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- **If the requirements stated at either point c) [ENGLISH] or d) [CONSISTENCY] of the above list are not satisfied, the applicant will be accepted to the Master of Science degree course and enrolled, after having satisfied these conditions, by demonstrating his/her proficiency in English and/or obtaining the necessary prerequisites identified and communicated by the Commission.**

Note: if the applicant is admitted, compulsory additional subjects shall be communicated together with the admission and before enrolment, in order to provide students with the necessary information for a transparent and rational choice.

Plans of study



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i. Reference

✓ *prof.ssa Lidia Castoldi pianidistudio-ccschimica@polimi.it*

ii. Task: *verify the didactic coherence of the Study Plan*

iii. When is a Study Plan evaluated by the Commision?

- ✓ *When it does not respect the pre-approved tracks*
- ✓ *When the pre-established courses order is not respected*
- ✓ *When courses are entered as "autonomous"*
- ✓ *When you have transferred from another degree course*

Plans of study



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iv. What does the Study Plan Commission not do?

- ✓ *It does not manage the application*
- ✓ *It does not solve IT problems*
- ✓ *It does not contact the secretary*

v. What should the students do?

- ✓ *Create the Study Plan following the rules of the pre-approved tracks as much as possible*
- ✓ *Check the institutional email to promptly verify the presence of communications relating to the Study Plan*



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Teaching innovation,
PhD,
internationalization,
campus life

PoliMI Ambassador in Green Technologies



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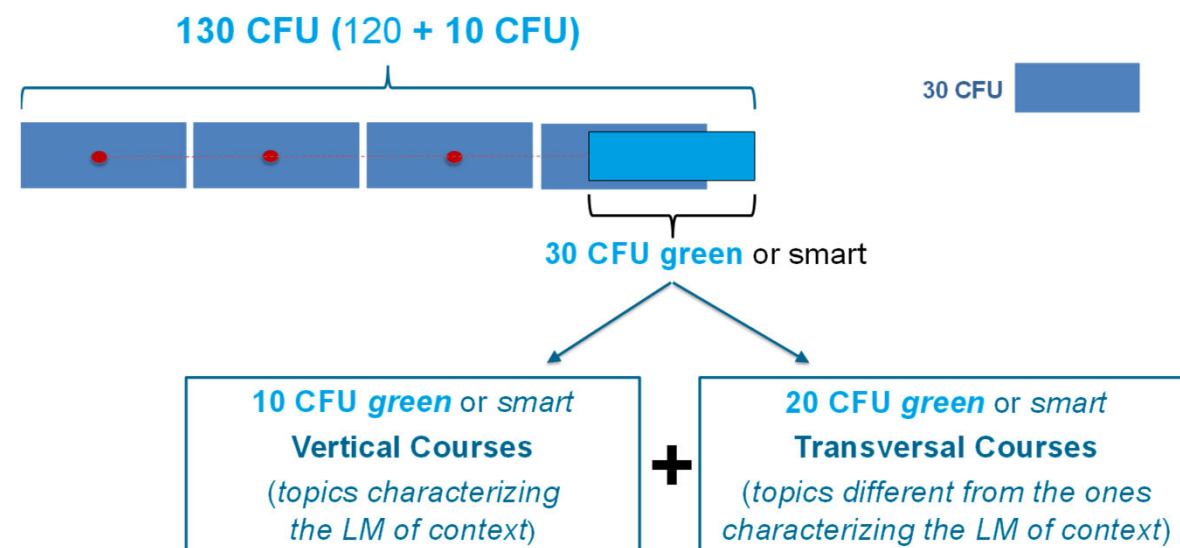
<https://www.ingindinf.polimi.it/en/>

AMBASSADOR ^{POLIMI}
GREEN TECHNOLOGIES

Starting in AY 21-22, PoliMi is activating **high-level training courses** to create professionals in the area of **Green Technologies** and **Smart Infrastructures** that:

- have skills in specific areas consistently with the training project (**green/smart**)
- acquire digital enabling technologies in line with the profile
- master **interdisciplinary tools, methods, and aptitude** for a **systemic vision**
- **develop talents** to operate in interdisciplinary and multisectoral contexts acquired through exposure, even in teams, to case studies and challenges

The **PoliMI Ambassador in Green Technologies certification** will be reported in the Student's Diploma Supplement and an electronic badge will be issued by Politecnico di Milano.



Honours Programme in Scientific Research in Industrial Engineering - CHEMICAL



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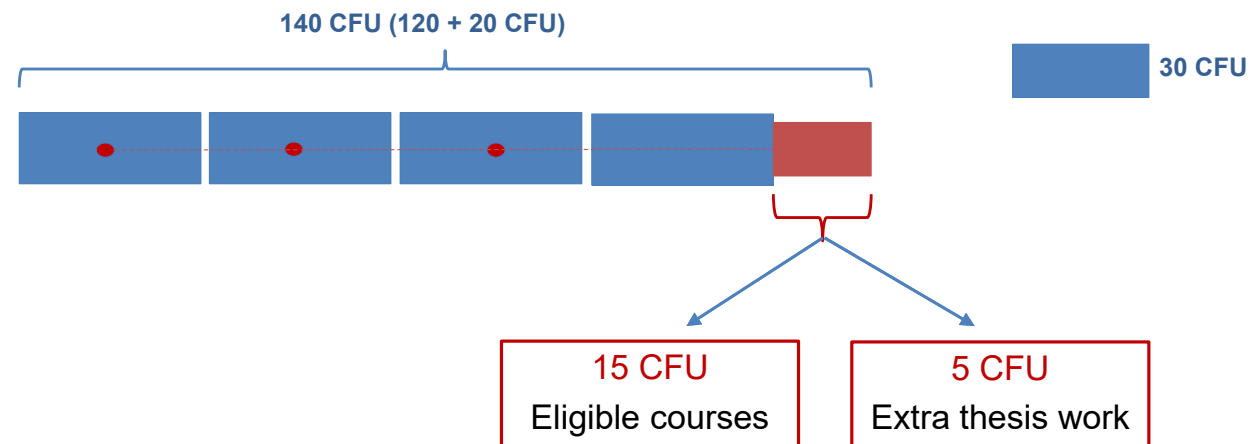
<https://www.ingindinf.polimi.it/en/>

An educational path that is part of the Politecnico di Milano high education training strategy and is targeted to students with a strong predisposition for study and research, with the aim to improve these skills and train industrial engineers who can enter the fields of scientific and technological research without problems.

It includes:

- additional in-depth training activities
- carrying out an in-depth analysis on the laurea magistrale final work with significant scientific research results.

The *Honours Programme in SCIENTIFIC RESEARCH IN INDUSTRIAL ENGINEERING* will be reported in the Student's Diploma Supplement



<https://www.polimi.it/corsi/percorsi-di-alta-formazione/honours-programme-scientific-research-in-industrial-engineering/>

3I School beyond curricular teaching



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<https://www.ingindinf.polimi.it/en/>

Soft skills development and teaching innovation is something we really care about...

<https://www.polimi.it/en/programmes/innovative-teaching/>

- Strengthen **laboratory courses**:
 - Experimental
 - Modeling
 - Project-work
- **Innovative teaching methodologies in curricular courses**:
 - Flipped classrooms
 - New spaces
 - Technology integration
 - Seminars series
- **Soft skills**:
 - Communication
 - Team-work
 - Organisation
 - Leadership...

Passion in Action
initiative

Officially registered in
the diploma supplement

Credits not valid for
graduation or scholarship
(!!!)

Multi-disciplinary
courses

Soft skills

Hackathons

Hands-on
activities

Competitions

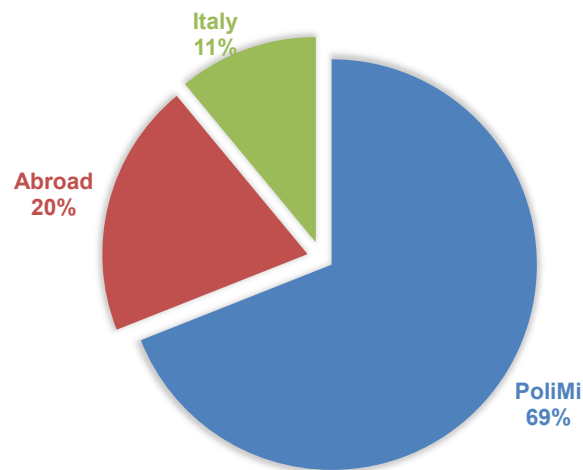
<https://www.polimi.it/corsi/passion-in-action/>

International Mobility (3I)



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Where are PoliMi Master Students from?



Some number on «Exchange programs»

	incoming	outgoing
Erasmus+	938	730
Extra EU Bilateral Agreements	487	263
Double Degrees	288	142

IDEA League

leading European education and research in science and technology



ALLIANCE 4 TECH



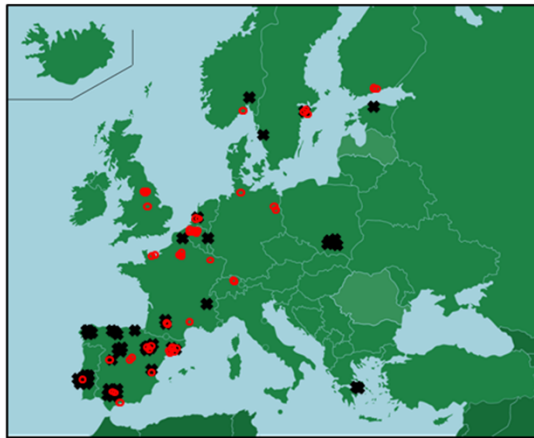
Strategic networks of European Technical Universities

Strategic agreements with top Chinese Universities



International Mobility (ChemEng)

An international and multicultural environment...



- ✘ Incoming students Chemical Engineering
- Outgoing students Chemical Engineering

Why an experience abroad?

- ✓ To learn a new language
- ✓ To benefit from cultural diversity
- ✓ To become citizens of the World
- ✓ To deepen your knowledge
- ✓ To share your knowledge and your culture

Exchange Programs @ PoliMi

- ✓ Erasmus
- ✓ Bilateral Agreements (UE and Extra-UE)
- ✓ Double Degree (UE and Extra-UE)

PhD in Industrial Chemistry and Chemical Engineering



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<http://phd.chem.polimi.it/>
<http://www.dottorato.polimi.it/>

The **Ph.D. Programme in Industrial Chemistry and Chemical Engineering** offers students and executives opportunities to **develop solutions to global challenges by performing cutting-edge research** in three main areas:

- **Energy, Safety and Environment**
- **Health and Life Sciences**
- **Smart and Sustainable Industry**

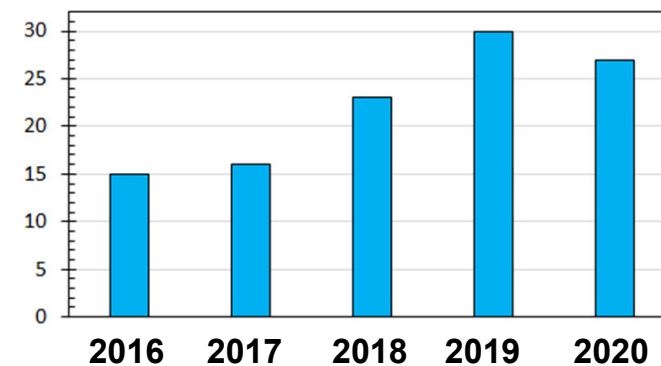
Research activities span from the **nano/micro scale up to the macro scale** and cover any fields of Industrial Chemistry and Chemical Engineering: from **chemical synthesis** to the characterization and transformation of matter, the development of **new materials**, to safe and **innovative technologies** for **sustainable process development** and design, from **experimental research to numerical modelling** of chemical processes and phenomena.



*The Doctoral Programme...
a strategic resource for
Industry*



PhD Students Enrolled by Year



Life on Campus



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Students Associations [www.polimi.it/rappresentanti- associazioni](http://www.polimi.it/rappresentanti-
associazioni)

- > 20 Associations
- 3 official lists of students representatives
- Many activities:
 - Theater
 - Radio
 - Travels
 - Movies
 - Music
 - ...
- Active Participation in PoliMi Governance

SPORT PoliMi <https://www.sport.polimi.it/>

- Brand new stadium and sport center (Giuriati, Campus Leonardo)
- Proprietary and affiliated sport centers
- Many Events:
 - PolimiRun Winter
 - PolimiRun Spring
 - Soccer, Basketball and Volleyball tournaments
- Dual Career program

ASSOCIAZIONI STUDENTESCHE

Al Politecnico di Milano ci sono numerose associazioni e tre liste di rappresentanza studentesca, che partecipano in maniera attiva alla vita universitaria, proponendo attività di vario genere, dal teatro alla radio, dall'incontro con gli studenti internazionali ai viaggi e ai cineforum, senza trascurare la partecipazione attiva negli organi accademici.



[www.polimi.it/rappresentanti-
associazioni](http://www.polimi.it/rappresentanti-
associazioni)



ATTIVITÀ SPORTIVE

Il Politecnico invita tutti gli studenti a fare sport sfruttando sia gli impianti messi a disposizione dall'Ateneo, sia quelli convenzionati. Se pratici uno sport ad alto livello, verifica la possibilità di accedere al programma Dual Career, creato per venire incontro alle esigenze dei nostri migliori studenti sportivi.



www.sport.polimi.it/



COLLABORAZIONI RETRIBUITE

A partire dal secondo anno, è possibile svolgere presso le strutture del Politecnico collaborazioni retribuite, a tempo parziale. Se sei interessato, tieni d'occhio gli specifici bandi che vengono pubblicati annualmente e verifica se sei in possesso dei requisiti richiesti.



www.polimi.it/150-ore



POLIPSI

I nostri studenti possono avvalersi di PoliPsi: un servizio a cui rivolgersi e ricevere sostegno competente nei momenti di disagio, incertezza e difficoltà legate allo studio.



www.polimi.it/polipsi



POP

Pari Opportunità Politecniche è il programma del Politecnico per garantire un ambiente di studio e lavoro che rispetti le identità di genere, le diverse abilità, cultura e provenienze. Vengono organizzate iniziative formative e servizi per aiutare gli studenti a percorrere la propria carriera con successo, dentro e fuori l'Ateneo.



www.polimi.it/pop



STUDENTI CON DISABILITÀ

Il Politecnico offre un Servizio che può fornire sostegno e dare tutte le informazioni utili per:

- i test di ammissione
- le pratiche di segreteria
- l'accessibilità agli spazi
- i servizi di accompagnamento
- le attrezzature e la teledidattica



www.disabilita.polimi.it



Waged Collaboration

www.polimi.it/150-ore

Part-time collaboration activities:

- Libraries
- Events logistics and security

POLIPSI

www.polimi.it/polipsi

Free psychological and psychotherapeutic support for PoliMi students

POP

www.polimi.it/polipsi

«Politecnico Equal Opportunities Program»

guarantees a study and work environment that respects gender identity, disability, culture and background

DISABLED STUDENTS SUPPORT

www.disabilita.polimi.it

PoliMi supports students with disabilities in:

- Admission procedure
- Bureaucratic processes
- Accessibility to spaces
- Dedicated facilities and distance learning

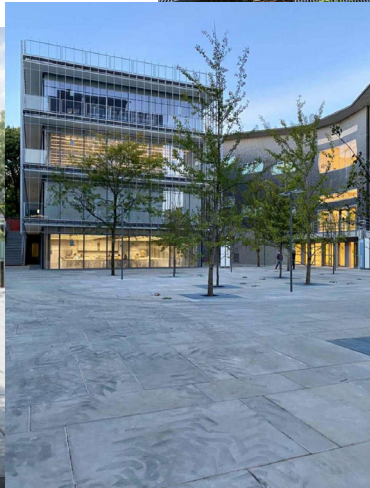
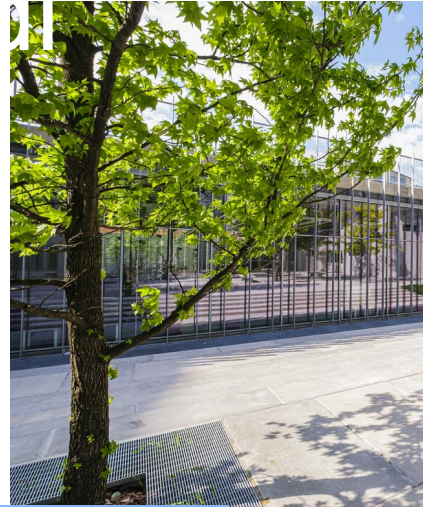
Giuriati Sports Center



Life on Campus (Leonardo)



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Life on Campus (Bovisa)



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Summarizing



- **A deep, polyvalent, flexible and highly appreciated technical and scientific education**
- **Creative and innovative attitude** highly appreciated by the process industry
- **Great short and long term employment opportunities**
- **Excellence in Research**
- **A multicultural and stimulating environment in a vibrant and cosmopolitan city: Milan**
- Your chance to be a first line player in **Italy, Europe** and around the **World**

Come join us!

Contacts



POLITECNICO
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<http://www.ccs-chimica.polimi.it/>



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