



2022-2023 Issue 3

MaChTazine

Materials Science &
Chemical Technology

XL



Introduction

Hey everyone,

This time we have a special XL version of our MaChTazine for you. In this MaChTazine you can find pictures of our last event: the MaChT pasta night, game night and cake day. This XL version also contains information about internships from our sponsors so that you can browse through and find the internship of your life!

Last but not least there are also new puzzles from this month's Companies of the Month. Everyone who submits their solution (in the MaChT boxes or by mail) will have a chance at winning one of the awesome prizes offered by Solvay, Borealis and Eastman.

Your MaChT Press—Arthur & Yana



Coming events

This semester is slowly coming to an end but we already want to advertise our largest event for next semester, **MaChT Meets the Industry**. The event will take place the **22nd of February 2023**, in Kinepolis Ghent. The concept is the same as last year: you can speeddate with our sponsors in small groups. This is the perfect opportunity to get more information about internships, application procedures or the general goings of the company. As always, there will be free drinks and appetizers. More information will follow soon...

MaChT Meets the Industry

22 February 2023

Printed by

PAPIER&CO

Next event



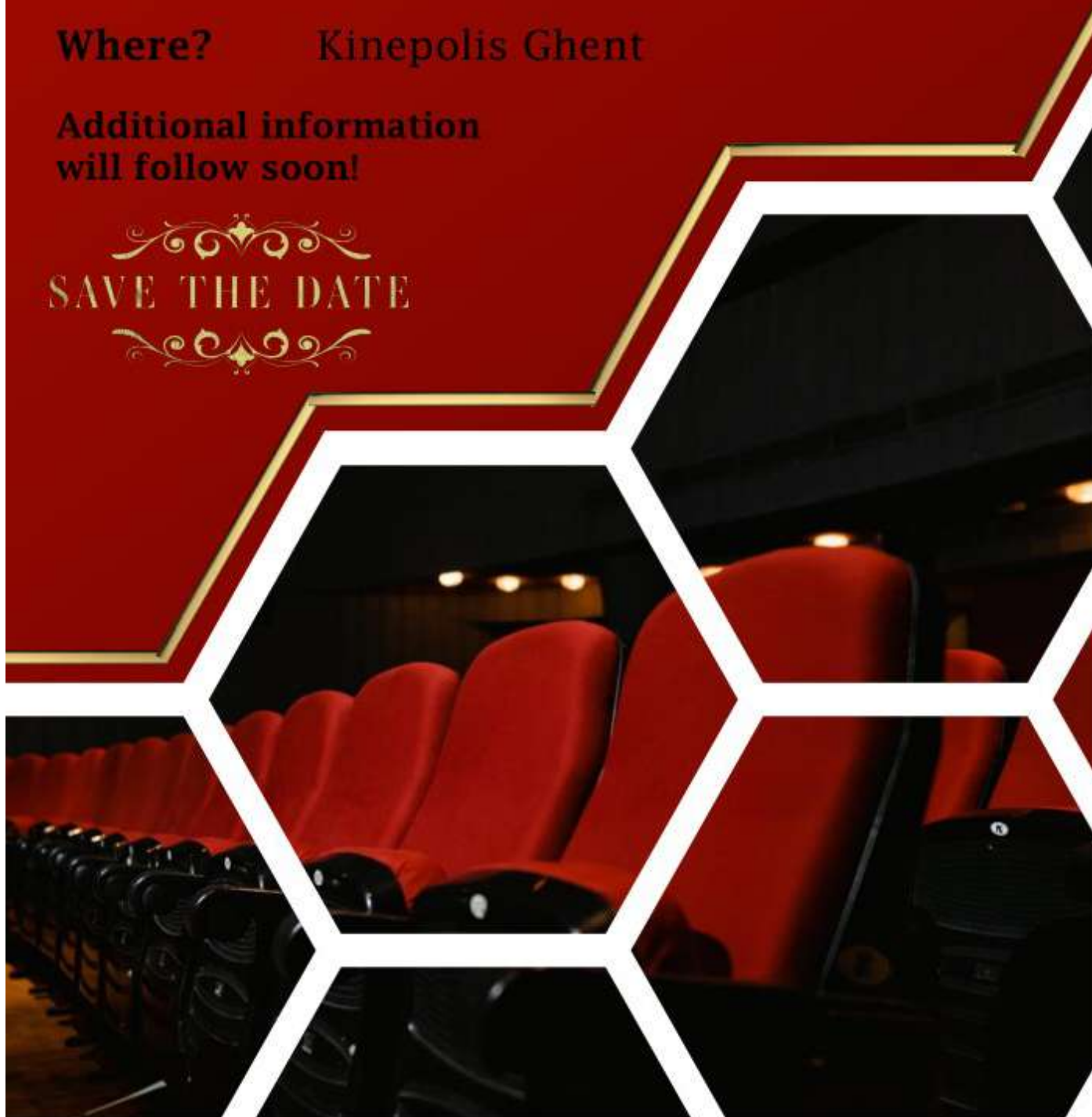
MaChT Meets the Industry

When? February 22 2023

Where? Kinepolis Ghent

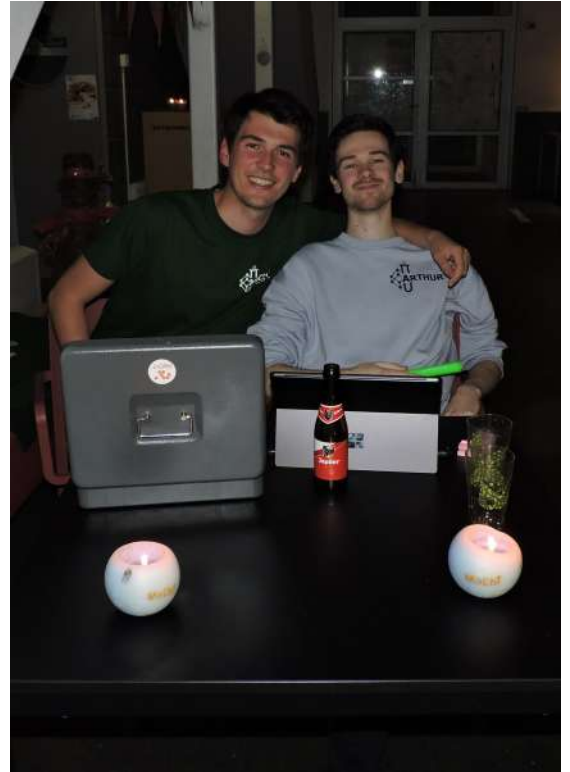
**Additional information
will follow soon!**


SAVE THE DATE

The Pasta Night was a success!

The Pasta Night was a great success and we want to thank everyone who was present! We especially want to thank all of our volunteers because without them it would not have been possible to do all the work!





Games night!

We had our first ever Games Night a few weeks ago, where the board and MaChT members came together to play some board games!



Cake day!

We hope you all had a chance to enjoy the many cakes and cookies we handed out, (most of them) lovingly baked by our own MaChT board members!



Guess Who is Who

Fill in the names of the board members in the right name boxes. The pictures of the board members in more recent settings can be found on the next pages. Try to **link** them to the **baby pictures** on the christmas gifts and in the tree and win an awesome prize to start the next semester even better!

So, what awesome prize is there to win?

Win some **free cocktails** on our Cocktail night next semester!

Send a picture of your answer to **macht@ugent.be** or deposit them in one of the **MaChT** boxes in building before the **15th of December**. Good luck!





Guess Who is Who

Fill in the names of the board members in the right name boxes. The pictures of the board members in more recent settings can be found on the next pages. Try to **link** them to the **baby pictures** on the christmas gifts and in the tree and win an awesome prize to start the next semester even better!

So, what awesome prize is there to win?

Win some **free cocktails** on our Cocktail night next semester!

Send a picture of your answer to **macht@ugent.be** or deposit them in one of the **MaChT** boxes in building before the **15th of December**. Good luck!



Jonas



Marie



Manon



Jonathan



Marthe M



Joanna



Anne-Céline



Mattis



Marthe V



Arthur



Yana



Jordy



Robin



Natan



Michiel

Internships via UGent

Winter is coming, the perfect time for all 3rd bachelors and 1st masters students to start looking for a summer Internship. Yeah, an internship, I heard something about that but I am a little lost. No problem, the faculty of engineering and architecture summarised all the necessary information under the following site:

<https://www.ugent.be/ea/nl/faculteit/studentenadministratie/stage>

Why doing an internship? There are a multitude of reasons, an experience abroad, earning credits, soak up the atmosphere of a place you want to work, getting some industry experience, etc.

Still in doubt? On our MaChT site you can read some testimonials from the board members.

<https://macht.ugent.be/>

On the next pages we offer you the opportunity to browse through the opportunities offered by our sponsors. It must be noted that some sponsors offer their internship opportunities later during the academic year (January—March). You can always ask them more about their internships at MaChT Meets the Industry!

Borealis

Your Campus Recruitment Ambassador

#peoplemakeithappen
#joinBorealis
#meettheteam



Borealis Zwijndrecht



Process Engineer



Master Chemical Engineering, UGent



**Maxime
Beck**
"The Green
Dreamer"



Best time at Borealis

Working as a young engineer on projects that contribute to doing chemistry in a sustainable way, for a sustainable living



Ask me anything about

The Borealis family culture, nice afterwork events & how to make the best peach cheese cake



Eager to get in touch?

Maxime.Beck@borealisgroup.com



Aluminium Duffel



Stage voor Materiaalkundige en Chemische Ingenieurs

Wat is er zo bijzonder aan aluminium?

Aluminium is sterk, licht, duurzaam, flexibel, extreem veelzijdig, ondoordringbaar, corrosiebestendig, een uitstekende geleider van elektriciteit, niet magnetisch, niet brandbaar, een overvloedig element in de aardkorst en oneindig recycleerbaar. Aluminium heeft een onbegrensd potentieel om deel uit te maken van oplossingen die de maatschappij vooruit helpen. De vrijheid van mensen en bedrijven stelt in staat een betere toekomst te creëren door innovatief gebruik te maken van de veelzijdigheid die aluminium biedt.

Je werkveld

Aangezien het innovatiecenter gelinkt is aan de fabriek is er een hechte samenwerking tussen R&D en productie. Wij kunnen jullie alvast een inzicht bieden in verschillende functies waar een ingenieur in de industrie terecht kan komen (R&D, kwaliteitsdienst, technische klantenondersteuning, procestechnologie, etc.)

Wij kunnen jullie interessante onderzoeksonderwerpen aanbieden waardoor we onze producten nog beter kunnen maken.

Enkele voorbeelden hiervan zijn corrosie-onderzoeken gekoppeld aan elektrochemische metingen, MSA-analyse van bepaalde meetapparatuur, in kaart brengen van de invloedfactoren op kleur en glans van geanodiseerd materiaal, effect van manier van afschrikken na gloeien op mechanische eigenschappen, etc.

Jouw taken en vereisten

- Informatie vergaren, zowel uit literatuur als via medewerkers, meestal gekoppeld aan labotesten of bijwonen van industriële proeven.
- Analytische ingesteldheid en systematisch kunnen werken in teamverband.
- Goede kennis van het Nederlands en Engels

Interesse?

Stuur dan je CV t.a.v.:

• Els Verboom

Manager R&D,

els.verboom@aluminiumduffel.com

• Ria Van den Broeck

Manager Proces & Product Technologie,

ria.van.den.broeck@aluminiumduffel.com

Aluminium Duffel B.V.

is een Europese leider in het produceren en verkopen van aluminium walsproducten voor heel uiteenlopende markten (automobiel, architectuur, bouw, consumenten producten,...) wereldwijd.

Het beschikt over state-of-the-art technologie, waaronder de breedste koudwals in Europa en een CALP-productielijn (Continuous Annealing Line with Pre-Treatment).

Het Innovatiecentrum in Duffel, België, richt zich dan ook op segmenten zoals de automobiel- en industriële sector.

Beaulieu International Group

Become a B.I.G. Campus Colleague!

B.I.G. biedt studenten het hele academiejaar door de mogelijkheid om stage te volgen binnen onze organisatie. Op de website **careers.bintg.com** vind je steeds een overzicht van de beschikbare stageplaatsen en kan je **solliciteren via een korte kennismakingsvideo**. Onze HR-medewerkers in samenspraak met jouw toekomstige stagementor verwerken vervolgens jouw sollicitatie met zorg. Elkaars verwachtingen, wensen en verzoeken toetsen we daarna verder af in **een persoonlijk gesprek**. Kortom, vanuit B.I.G. beschouwen we een stage steeds als een **dynamische win-win!**



Bekijk snel de volledige vacature
op careers.bintg.com



From 'burgie' to BASF'er

Looking forward to explore exciting projects as a future engineer?
Want to discover the challenges the chemical sector has got to offer?
Then an **internship** at **BASF Antwerpen** might interest you!

Our fellow engineers will be happy to tell you in detail about all of our internship opportunities at the VTK Internship Fair, November 28th.

Can't wait? Discover our internships at www.werkenbijbasf.be/stages



Get to know us

Internship fair 28 nov.
VTK Gent

Apply:

werkenbijbasf.be/stages

Interviews:

dec '22



Let's stick
together

Challenging internship
Summer '23



We'd like to get to
know you



DOW

Can you see
yourself
on the team?

Apply today at
careers.dow.com



Our internships offer enthusiastic students the possibilities to get to know Dow for a longer period through challenging and rewarding projects.

We continuously seek talented and passionate students to join our team. Come explore how you can contribute, grow your capabilities and make an impact at Dow!



Visit campusemeai.dow.com to learn more.

Join our **Talent Community** to stay updated on news, job opportunities and more.



Seek Together™

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.



Location: Antwerp, Zwijndrecht, Meerhout

Internship Engineer - Belgium

We are more than just one of the largest energy companies in the world. ExxonMobil is a place where people think independently, take initiative, grow to their full potential and help shape the future of energy. We strongly believe that diversity drives innovation and our inclusive workplace helps everyone thrive, regardless of your background. The safety and wellbeing of our employees is at the heart of everything we do.

At our manufacturing sites in the Antwerp Area we are offering internship opportunities for graduate engineers.

As an intern you have a well-defined task and are coached by a dedicated ExxonMobil coordinator. You work in a young and dynamic environment that allows you to get a clear view on how working at ExxonMobil would look like. Each internship subject contributes to our business and gives you a 'taste' of a typical starting position with ExxonMobil. During your internship you will perform a project for one of our engineering departments and learn to work independently in a professional environment.

Typical internship projects may be:

- Process simulation
- Safety studies
- Monitoring software
- Economic studies

Selected candidates will have the opportunity to work with inspiring and diverse teams and join us for a 4 to 6 weeks internship during summertime.

- university students: Msc Civil Engineering (Chemical, Materials, Mechanical, Electrical, Energy, Applied Physics) and Bioscience Engineering (Chemistry & Bioprocess Technology, Catalytic Technology), in their 3rd year Bachelor or 1st year Master
- fluency in Dutch and English

Interested about this opportunity?
Then stay connected and apply!



Curious about this opportunity?

Stay connected with us and apply

Hope to welcome you soon!

Total Energies



4 INTERNSHIPS ARE TO BE OPENED AS JUNIOR PROCESS ENGINEERS IN SUMMER 2023 AT THE ANTWERP REFINERY

You can now apply via **internship-belgium@totalenergies.com** and specify "Internship in Antwerp".



Check out our job opportunities and join us in improving energy every day!
Apply now at **www.careers.totalenergies.com/fr**

Air Liquide

An interesting testimony of an internship at Air Liquide can be found on this link. At the end of the article a link to the Air Liquide site with their job offers can be found.

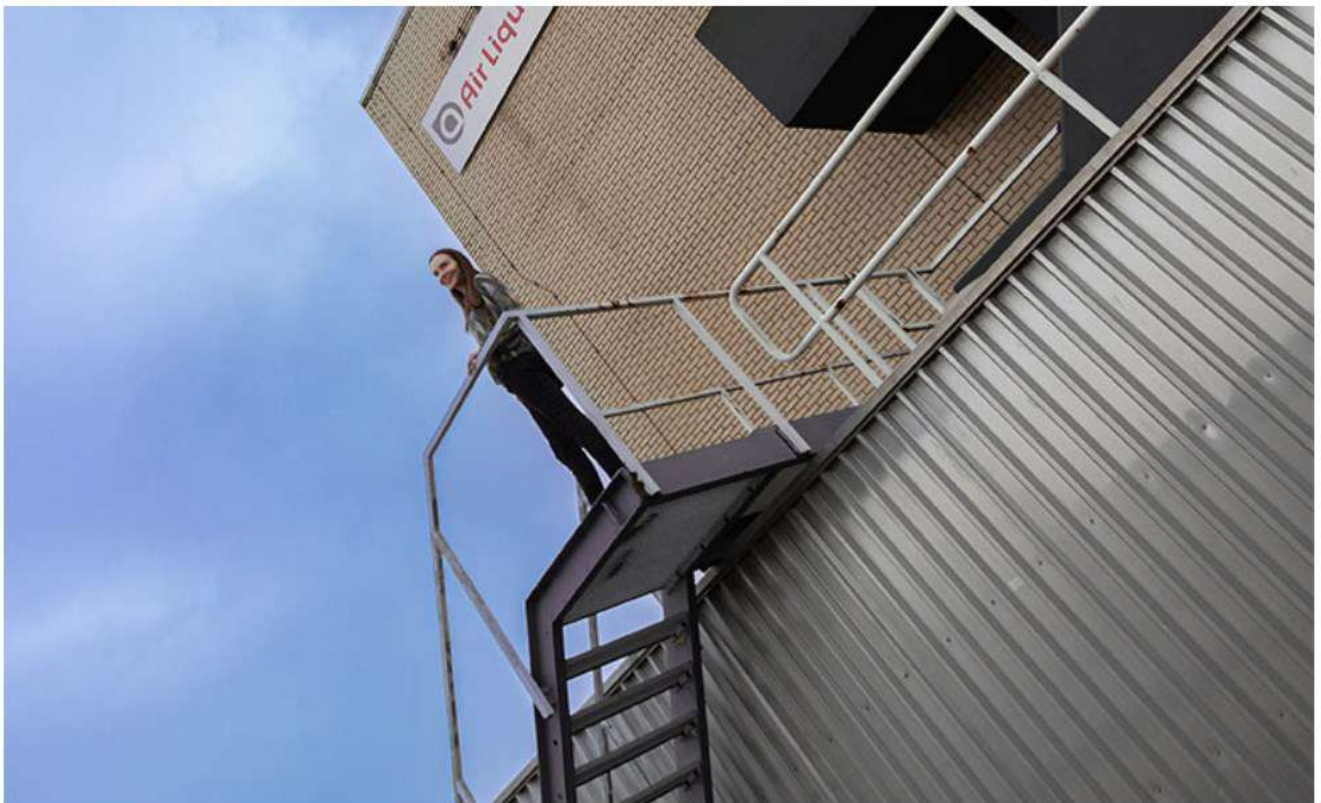
Check out this link for more information!

<https://blog.airliquide-benelux.com/belgie-nederland/item/continuity/behind-scenes/%E2%80%9Com-maar-te-zeggen-dat-het-hier-een-perfect-biotoop-voor-een-ingenieur%E2%80%9D>

“Om maar te zeggen dat het hier een perfect biotoop is voor een ingenieur.”

Women in Tech: Jeannine Frijns

BEHIND THE SCENES | 7 MAART 2022



Aanvankelijk zou ze alleen maar stage lopen bij Air Liquide. Maar dat beviel zo goed dat ze daarna meteen een contract aangeboden kreeg om in dienst te treden als procestechnoloog...

Op zoek naar een nieuwe uitdaging? Bezoek onze vacatures!

[Onze vacatures](#)

Company of the Month: Solvay



Wij verbinden mensen, ideeën en elementen om de vooruitgang opnieuw uit te vinden.

Solvay in het kort

Onze bestaansreden - mensen, ideeën en elementen samenbrengen om de vooruitgang opnieuw uit te vinden - is een oproep om een stap verder te zetten en om dankzij de kracht van de wetenschap duurzame gemeenschappelijke waarde voor iedereen te creëren. Als wetenschappelijk bedrijf willen we de motor zijn voor toekomstige innovatie, en tegelijkertijd de planeet beschermen die we allemaal samen delen. Als wereldleider op het vlak van **materialen, chemische producten en oplossingen** brengen we verbeteringen voor vliegtuigen, auto's, batterijen, slimme en medische toepassingen en water- en luchtbehandeling, om een antwoord te bieden op industriële, maatschappelijke en ecologische uitdagingen.

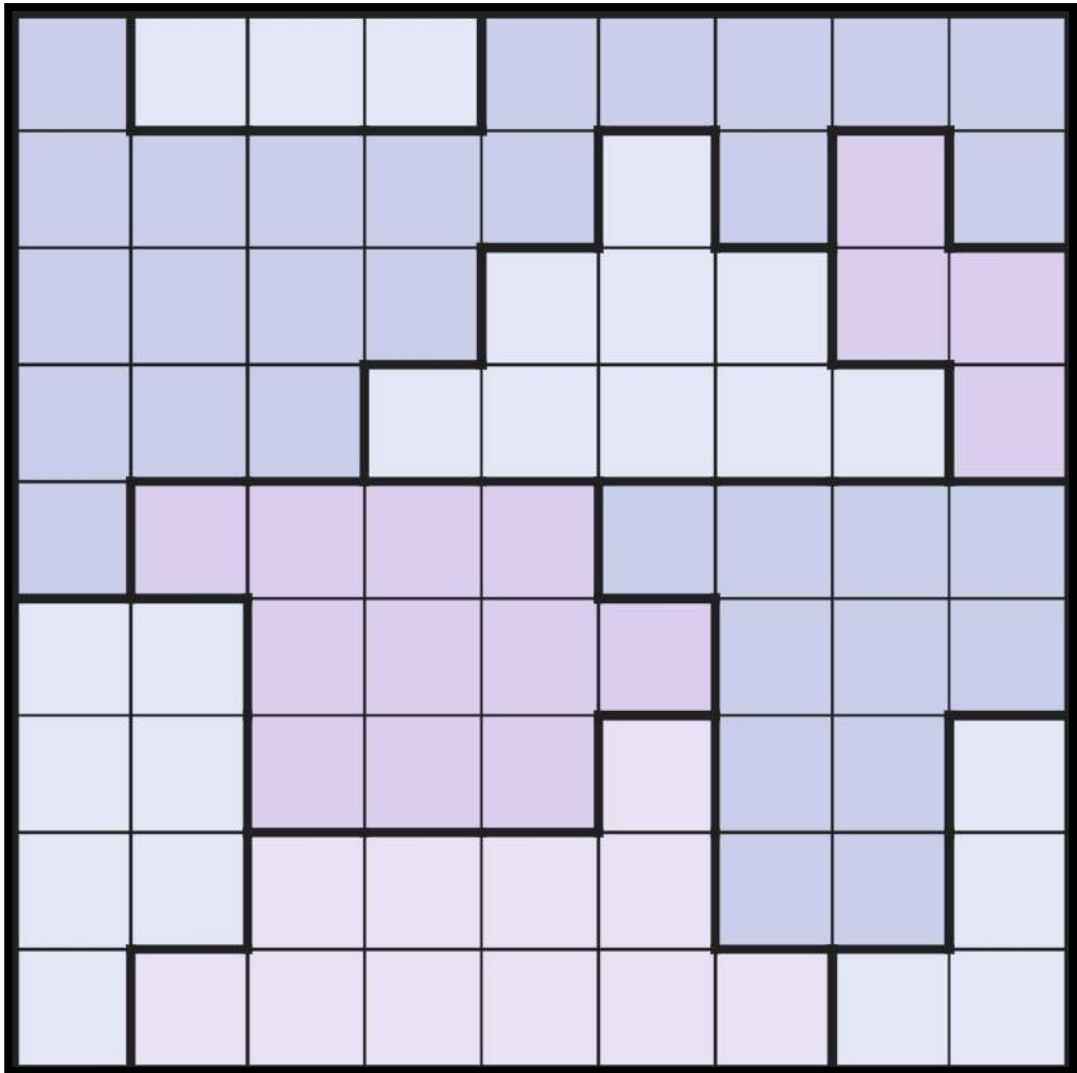
Onze activiteiten

De wereld van vandaag wordt geconfronteerd met een almaar groeiende bevolking en parallel daarmee een stijgende vraag naar hulpbronnen. Men kan op onze innovatieve oplossingen rekenen om tot veiligere, schonere en meer duurzame producten te komen in woningen, voeding en consumptiegoederen, vliegtuigen, auto's, batterijen, slimme toestellen, zorg voor mensen, water- en luchtzuiveringssystemen.

Puzzle Solvay

This puzzle is a **Star Battle**! The rules are as follows:

- Every zone, row **and** column needs exactly **2 stars**.
- Stars cannot touch each other, not even at the corners.



Tear or cut this page out and deposit your submission in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to **macht@ugent.be** by the **15th of december** for a chance to win the awesome prize offered by **Solvay**! Good luck!

Name: _____

Email: _____

Company of the month: Borealis



Are you ready to be part of the solution for a more circular tomorrow? We are!

Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals and the mechanical recycling of plastics. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

We are looking for a wide variety of engineering profiles and recruit graduates from all major disciplines including chemical engineering.

Borealis in numbers

1,232 employees in Belgium

6,900 employees worldwide

120+ countries served

3 mechanical recycling assets

3 production plants in Belgium

Why join Borealis as a young graduate?

- You will make a difference

Our sustainability ambition going forward is to create a world where there is no waste of resources, no emissions into the environment and no harm to society, while delivering prosperity for Borealis and our stakeholders.

- You will go beyond boundaries, together with us

By combining formal learning with real-life assignments and mentoring, development and career progression is guaranteed. We are also expanding our activities, to offer you (international) possibilities.

Ready to #joinBorealis? Apply via our career site (careers.borealisgroup.com) or contact our Talent Acquisition Specialist via karolien.vercauteren@borealisgroup.com.

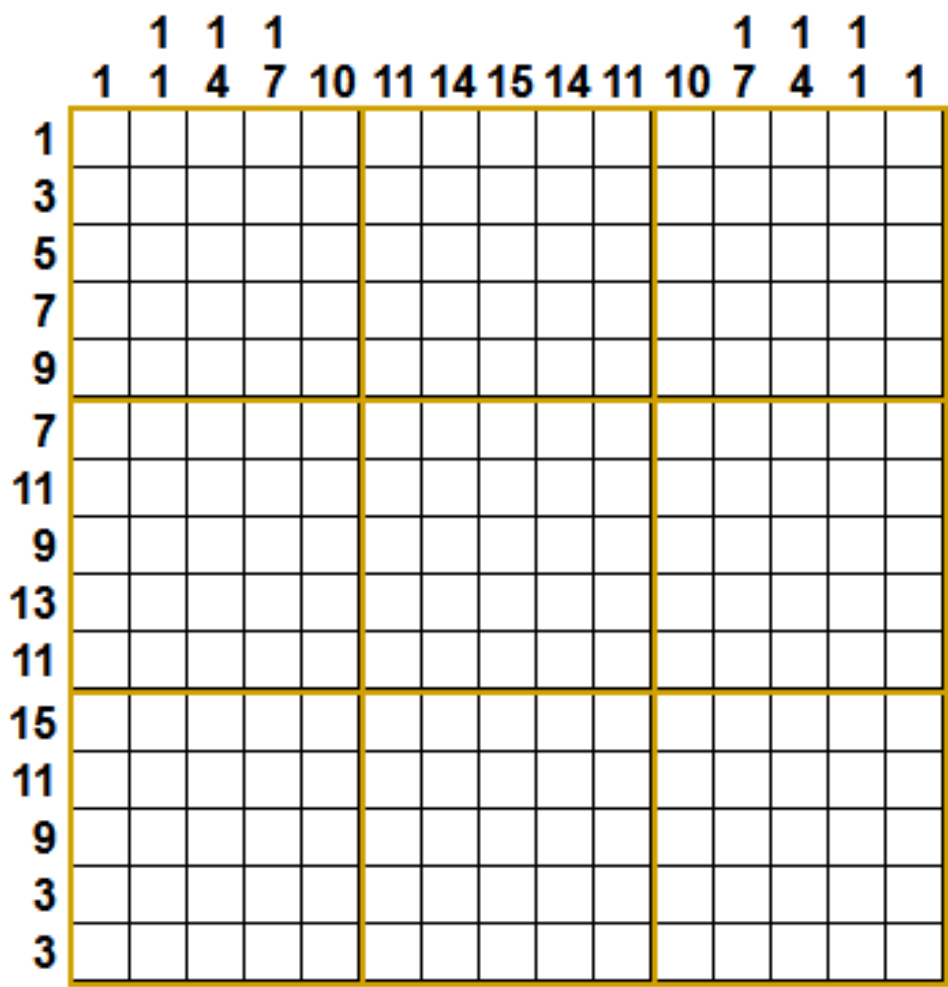


Keep Discovering

Puzzle Borealis

This puzzle is a **nonogram**, which creates a nice picture when it’s filled in!

The numbers on the side and on top show how many connected spaces should be filled in in the respective row and collumn. When two numbers are given, this means separate zones should be coloured in, in the order they are given. For example, if a vertical “1 7” is given, this means a single square and a line of 7 squares should be filled in, with at least 1 empty space in between.



Tear or cut this page out and deposit your submission in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to **macht@ugent.be** by the **15th of december** for a chance to win the awesome prize offered by **Borealis**! Good luck!

Name: _____

Email: _____

Company of the month: Eastman



Je kan er moeilijk omheen, **Eastman** heeft de jongste jaren zijn positie zodanig versterkt dat we vandaag de grootste werkgever zijn voor de chemische industrie in de Gentse regio.

Met twee productiesites en een researchafdeling kunnen we een zeer gevarieerd aanbod aan uitdagingen en carrièremogelijkheden aanbieden aan jonge ingenieurs.

Onze productiesite Gent Noord produceert Methylamines. Dit zijn bouwstenen voor eindtoepassingen als cosmetica, detergenten, additieven voor diervoeding, gewasbescherming en afvalwaterzuivering.

De productiesite Gent Zuid is gespecialiseerd in de productie van folies die aangewend worden in gelaagd veiligheidsglas voor de automobiellindustrie en architecturale toepassingen.

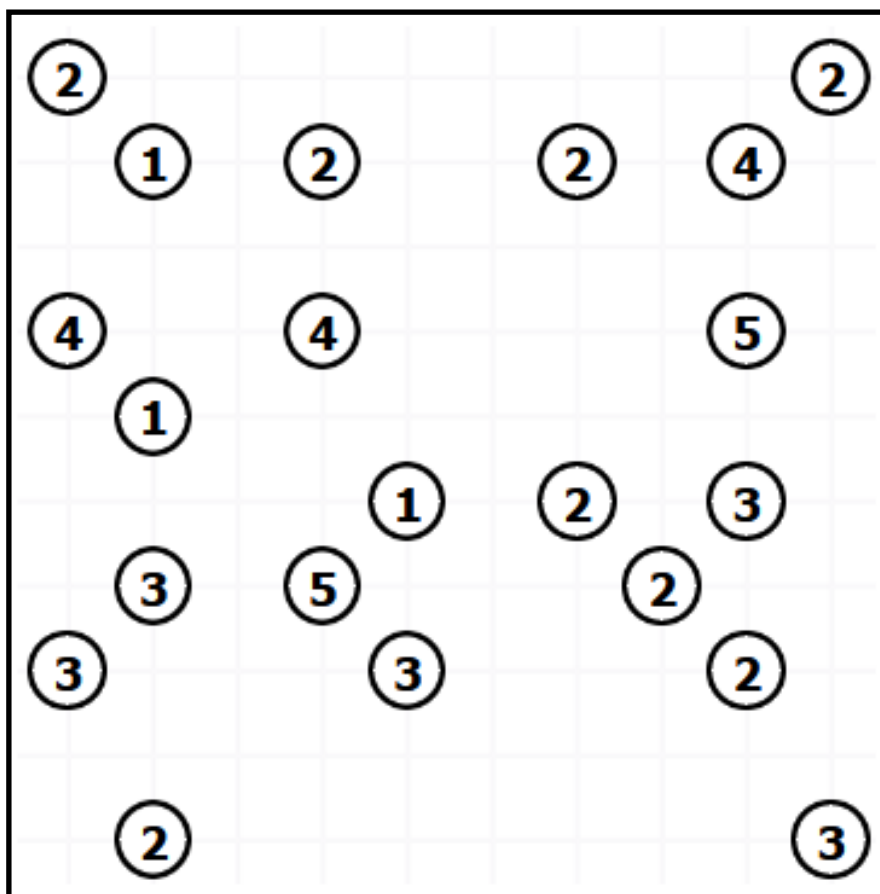
In 2018 opende Eastman de deuren van een nieuwe researchafdeling in het Technologiepark te Zwijnaarde, waar we focussen op onderzoek en ontwikkeling voor Coatings, Specialty Plastics en Plasticizers.

Vandaag hebben we een team van ca. 900 collega's in Gent en jaarlijks versterken we onze rangen met aanstormend talent.

Puzzle Eastman

This puzzle is called **Hashi!** The rules are as follows:

- Each circle needs to be connected by a straight line with another circle.
- The total number of connections corresponds with the number in the circle.
- Between the same 2 circles, there can be 1, 2 or no connections.
- In the end, all circles should be connected to each other and the lines cannot cross.



Tear or cut this page out and deposit your submission in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to macht@ugent.be by the **15th of december** for a chance to win the awesome prize offered by **Eastman!** Good luck!

Name: _____

Email: _____

Sponsors



AD Aluminium Duffel



EASTMAN

ExxonMobil

INEOS

Deloitte.



Air Liquide



TotalEnergies



Progress beyond

