

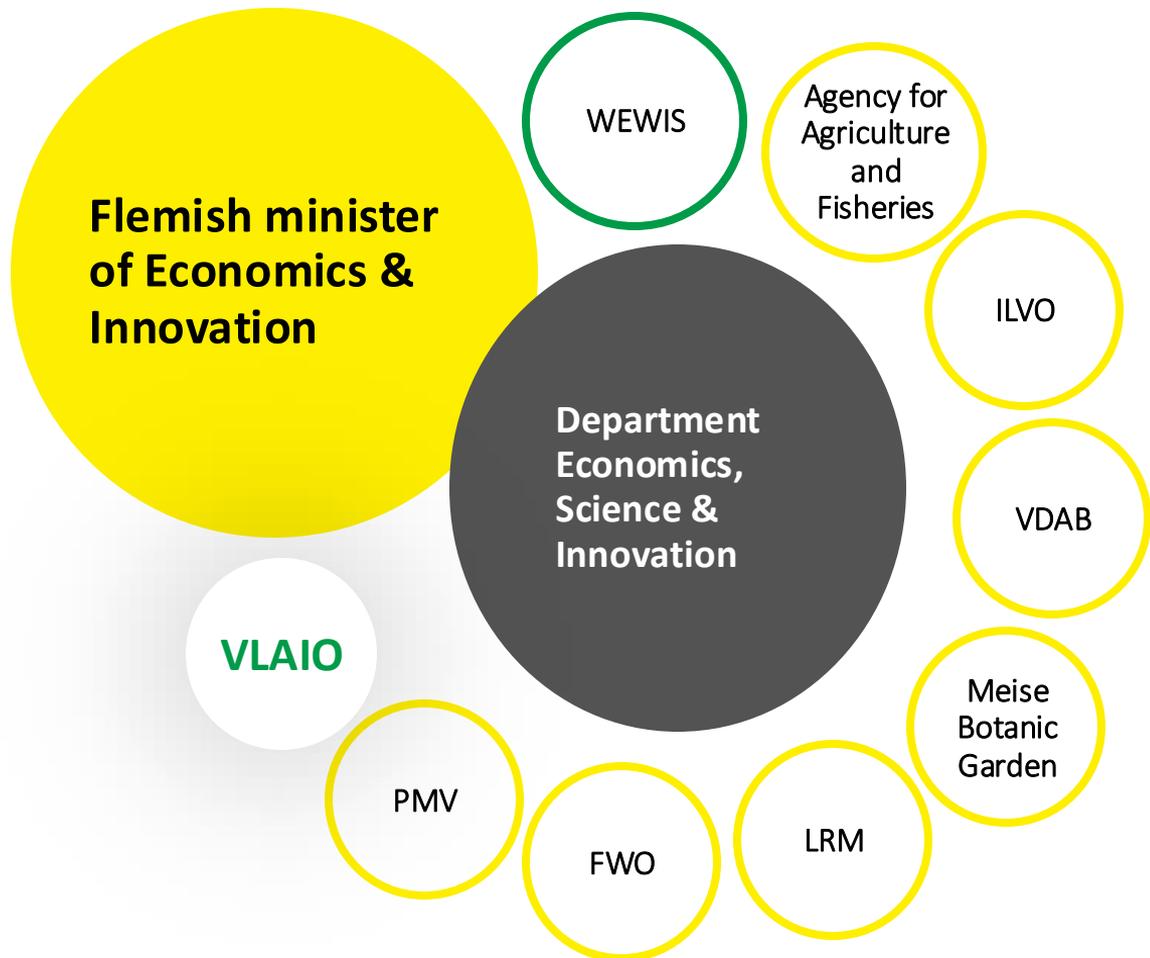


**Flanders**  
State of the Art

# Baekeland mandates

**VLAIO**

# Who we are



# At a glance

VLAIO Innovation support

# companies: 645

€264 million

Support for investments

# companies: 480

€89 million

Support for training and  
knowledge provision

# companies: 54.000

€55 million

## Newsletters

Start up

5.700

Entrepreneurship

63.000

Innovation

12.500

LinkedIn

14.000

Visits to Vlaio.be

2.3 million

# Overview

- Purpose
- General terms and conditions
- Consortium
- Budget and funding
- Submitting an application
- Processing an application
- Follow up
- Timing

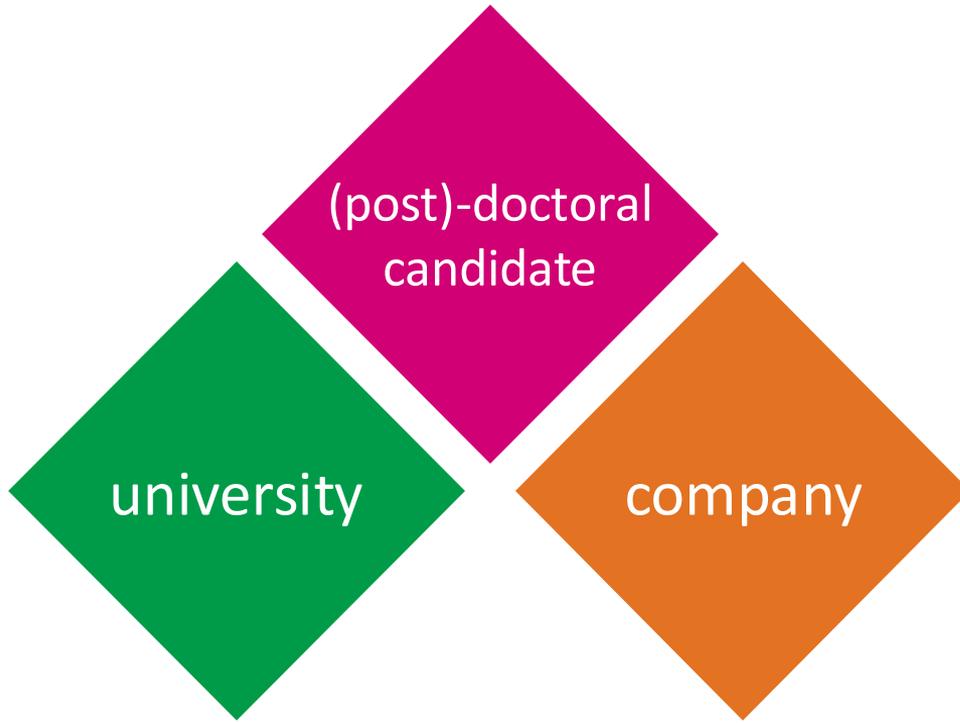
# Purpose



The aim is to promote the **mobility** of researchers between the **academic** and the **industrial** world.

Projects include **challenging scientific research** questions, linked to the **valorisation** of scientific results within one or more companies

# Purpose



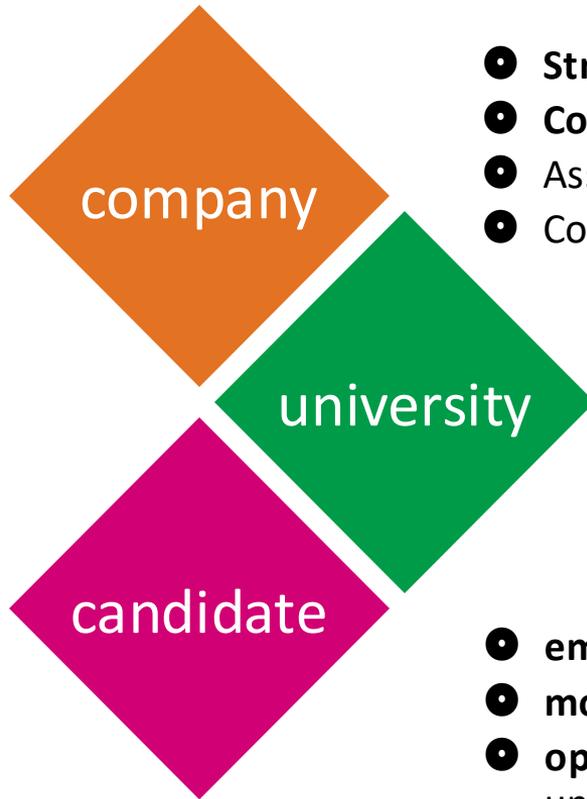
The Baekeland-program offers **researchers** the opportunity to perform doctoral research and **to obtain a PhD-degree in close cooperation with a company.**

# General terms and conditions Baekeland



- The research has a **clear economic objective** and will result – if successful – in an added value for the company
- The research is oriented to acquiring a **PhD** and meets the accepted criteria for doctoral research:
  - The project should fit within **strategic basic research** for a doctorate (PhD) = high-quality research that is innovative and provides the PhD student with ample intellectual challenges.

# Consortium - partners



- **Strategic orientation** of the project
  - **Co-financing**
  - Assigns an **industrial mentor**
  - Commitment for duration of the project
- 
- **Scientific promotor**: responsible for scientific quality/guidance
    - **university** for the assignment of a **PhD degree** according to the accepted criteria for doctoral research
    - other knowledge centres (also from abroad) in cooperation with a scientific promotor at a Flemish university
- 
- **employee** of the university/knowledge centre or employee of the company
  - **mobility**: activities in the company and in the university/knowledge centre
  - **open** to all candidates who are admitted to doctoral research at a Flemish university (Baekeland)

# Case - Pathosense

- Testing animals for disease-causing pathogens not straightforward
- Idea of type of pathogen before PCR-test
- New approach: examination of pure samples for all different pathogens simultaneously
- <https://www.vlaio.be/nl/ondernemersverhalen/complete-diagnose-van-infectieziekten-bij-dieren>



# Cases - Artiq

- PhD Marko Topalovic on using AI for lung function test
- Spin-off mandate
- Established in 2019
- VLAIO research project and Baekelandt mandate
- <https://www.vlaio.be/nl/ondernemersverhalen/deze-start-zet-ai-om-longziekten-beter-te-begrijpen>



# Duration



- Part-time occupation is possible ( $\geq 0,5$  FTE),
  - part of the assessment
    - can PhD be obtained?
- In case of part-time occupation
  - project duration extended
  - total support = 4 full-time person years

# Budget and funding



- Basis = payroll of the mandate holder (based on the real **salary cost**) + overhead costs + operating costs associated with this **one employee**
  - **Overhead costs:** not 100% attributable to the project, **max 25.000 eur/FTE**
  - **Operation costs:** real costs related to the execution of the project, **max 25.000 eur/FTE**
- No fixed sum but a **maximum**

# Budget and funding



- Baekeland and IM Phase 2
  - Support of 50%, 60 or 70% for SME's
  - 10% extra support for well-balanced collaboration with an SME
- IM Phase 1 and spin-off
  - Support 100%

# International mobility

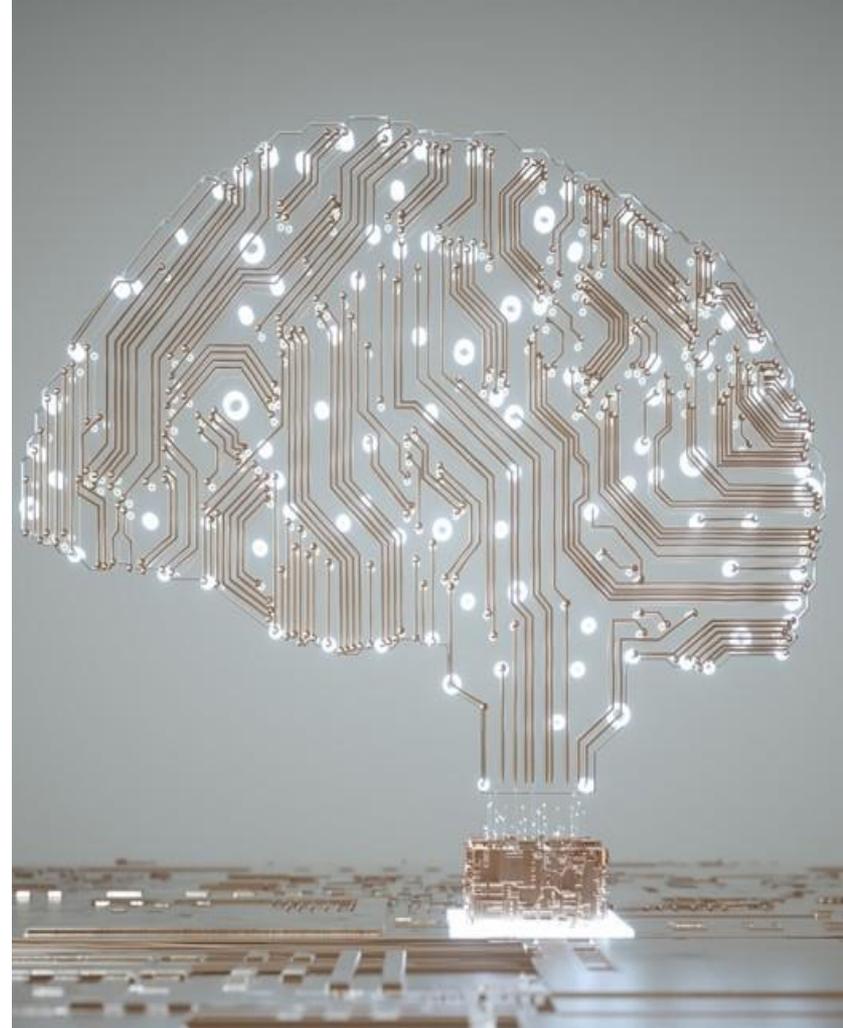
## outgoing mobility



- Travel grant for a long stay abroad
- For at least 3 months (or several shorter stays equivalent to min. 3 months in the same research group)
- Covering travel costs (max. 1.000 euro) and a fixed daily allowance of 66 euro/day
- In agreement with all partners + attention to IPR-agreements with the hosting research group
- Applications can be made at any time;
- No more than one long visit grant per mandate

# Intellectual property

- Mutual consent concerning the distribution of IPR. Different options are possible, e.g:
  - Shared rights
  - Property rights to the results would belong to the knowledge centre
  - Company would acquire property rights on results with a specific target
- Partners need to agree on access to background knowledge
- If the company also contributes its own knowledge/ models/tools, an immediate start with Phase 2 is highly recommended





# Submitting the project application

Subsidies & financiering

## Baekeland-mandaten

Wat Voorwaarden Bedrag Aanvraagprocedure Vervolgstappen

Aanvragen

### In 't kort

#### Ben je een bedrijf?

Werf een doctoraal onderzoeker aan en ontvang cofinanciering van VLAIO. Ontdek hier de meerwaarde voor jouw bedrijf: [vlaio.be/baekelandvoorbedrijf](https://vlaio.be/baekelandvoorbedrijf)

#### Ben je een afgestudeerde (master) op zoek naar meer kennis?

Doe je doctoraat bij een bedrijf. Ontdek hier waarom bedrijf en universiteit zo'n boeiende mix zijn: [vlaio.be/baekelandvoorstudent](https://vlaio.be/baekelandvoorstudent)

#### Oproep actief

Wanneer?

Van 21/12/2023 12.00 u tot 12/03/2024 12.00 u

> [Meer over deze oproep](#)

#### Samengevat

Voor wie?

consortium bestaande uit (minimum) een Vlaams

📧 Nieuwsbrief



# Pre-registration

Mail with link to application

## Applicatie Baekeland mandate

[Klik hier om je aanvraag in het Nederlands in te dienen](#)

[More information about the application for this subsidy](#)

### Project

Give the project title

### Candidate mandate holder

First name

Name

### Applicant - company

Is the company already created?

Yes  No

Enter the company number from the [Crossroads Bank for Enterprises](#) below.

Company number (CBE)

### University

Enter the company number from the [Crossroads Bank for Enterprises](#) below.

- Katholieke Universiteit Leuven: 0419.052.173
- Universiteit Antwerpen: 0257.216.482
- Universiteit Gent: 0248.015.142
- Universiteit Hasselt: 0208.359.859
- Vrije Universiteit Brussel: 0449.012.406

Company number (CBE)

### Contact details

Enter your e-mail address below. To this address we will send an e-mail with a personalised link to your application.

First name

Els

Name

Tourwé

National registry number

E-mail

Submit

# Project portal

PROJECT OVERVIEW BAEKELAND Els Tourwé | Log off

[How to complete this application](#)

 **The application is submitted completely, when all parts are submitted. This means**

- the main applicant completed and submitted the form "General project information".
- the main applicant completed and submitted the form "Main applicant".
- each partner completed and submitted his specific form.

When an application is submitted completely, you receive a confirmation email with an overview of the application.  
Contact us at [bedrijf@innovatieleun@vlaio.be](mailto:bedrijf@innovatieleun@vlaio.be) if you assume the application is submitted completely, but you did not receive a confirmation email.

### General project information + Candidate Mandate Holder Open form

Project title:	Test project
Candidate Mandate Holder:	Els Tourwé
Status:	To validate

### Main applicant - Company

Organisation	Status	Contact	
E - MAX ALUMINIUM PROFIELEN	In draft	Els T	<span>Open form</span>

### Industrial partners + Add

Organisation	Status	Contact
No data		

### Knowledge Institutes + Add

Organisation	Status	Contact	
UGent	In draft	Els T	<span>Open form</span>

# Fill in the different forms

GENERAL PROJECT INFORMATION - MANDATES Els Tourné | Afmelden

[Terug naar projectoverzicht](#)

Project information

1 2 3 4

## Project information

### General information

Project title

Keywords

Start date

Duration in months

This project is a resubmission  Yes  No

Employment  Full-time  Part-time

### Proposal for the industrial PhD research

Please download the following [MS Word template](#), fill it in and upload it below.

[Bijlage toevoegen](#)  
Sleep de bijlage naar hier om toe te voegen

### Cooperation agreement

The cooperation agreement is preferably immediately part of this application, but can also be submitted to the Agency at the latest on the deadline mentioned in the [call document](#).

Versie  This is the final version  
 This is a preliminary version  
 This document is missing, but will be delivered to the Agency before the deadline

[Bijlage toevoegen](#)  
Sleep de bijlage naar hier om toe te voegen

[Next](#)

# Form is submitted by legal representative

Declarations

1 — 2 — 3 — 4 — 5

## Declarations

*You are a legal representative or mandated of the legal representative and want to submit the application: complete the declaration below, complete your data as submitter with your e-mail address, go further and click on "Submit" under the overview of the provided information.*

*You are not the legal representative and not mandated? Forward the mail with the link to the application to the legal representative or mandated, to complete the declaration and to submit.*

*After submitting you cannot change the information. Your application will only be complete after the general project information has been submitted and all partners, if any, have submitted their specific part. After this, all applicants will receive a confirmation with the overview of the application.*

Als rechtsgeldig vertegenwoordiger van de aanvragende onderneming of gemandateerde van de rechtsgeldig vertegenwoordiger, geef ik het Agentschap Innoveren en Ondernemen, optredend voor het Hermesfonds, de toestemming alle nodige acties te laten uitvoeren naar aanleiding van de aanvraag voor dit project.

I declare that the selected Type of company is correct and declare that I have correctly completed the requested information on the annual reports and shareholders & ownership shares where required.

I declare that no other governmental support was requested or obtained for this project.

I declare that on the date of submission of this application, the company has no overdue unpaid taxes and/or employer social security contributions and is up to date with respect to all the required (environmental) permits.

I declare to be informed that the Hermes fund can and may not give a subsidy to [an undertaking in difficulty](#).

I declare that, when a contract is subcontracted to a research organisation, the company reimburses the service provided at the market price or fully reimburses the costs and pays a reasonable margin in addition.

I declare that I have taken note of the project application and the modalities of such project application as described in the manual of the Agency for Innovation and Business, acting for the Hermes Fund.

In case of approval of the Baekeland mandate, I agree that the project is carried out by the candidate mandate holder and that the supervision is ensured by the industrial promoter(s) and the scientific promoter(s). The activities of the promoters imply that at the request of the Agency for Innovation and Entrepreneurship, acting for the Hermes Fund, or at the request of the candidate holder, the promoters concerned are available to consult each other on the progress of the project, to advise on interim reports, publications and the valorisation process of the research.

I agree to the activities being carried out as stated in the accompanying project application.

The company is a small enterprise under 10 years of age  Yes  No

I declare that, in the course of the project implementation, the company does NOT wish to use the partial exemption of tax deducted at source on wages of employees as a Young Innovative Company (YIC). In the event of a change in this situation, I will inform the Agency Flanders Innovation & Entrepreneurship immediately of the fact in writing.

Legal representative of **university = rector** or its representative, not scientific promotor!



**Processing  
the project  
application**

# Eligibility

- In accordance with the modalities of the program
- All participants have to be known and eligible
  - Company with exploitation seat in Flanders,
  - No undertaking in difficulty ('OIM')
  - Scientific promotor at Flemish university
  - ...
- Principal agreement on IPR and use of results: can, exceptionally, be submitted later on. Deadline on website!
- (Conditional) permission, assigned by the university, to start the PhD-work
- Candidate: max 2 applications
- Sufficient information in project description to start evaluation

# Assessment



- Oral defence before a panel of experts
  - only the candidate mandate holder is invited
- Experts: 50/50 academic/industry
- Confidentiality & experts to be avoided
  - (max. 5 names and because of industrial competition)
- Application in English or Dutch – interview in the same language
- Introduction (1 min.)
- Interactive discussion (30 min.)

# Evaluation criteria



- Divided in four quadrants:
  - scientific quality vs utilisation quality
  - Candidate vs project
- Scores: excellent-good-moderate- weak (critical)
- Basis: explanatory document available at the website
- Panel with experts: score per criterion and per set (=quadrant), final appreciation by the Hermes comity
- Always: GO/NO GO  
Hermes comity decides on the cut-off, in case of # > budget

# Evaluation criteria

## I. Scientific quality



- Reasoning skills and critical-scientific mindset of the candidate
- Scientific knowledge and insight into the project

- Scientific quality level and challenges
- Quality of the research approach and feasibility



# Evaluation criteria

## II. Utilisation quality



- Insight and vision on the strategic importance of the project for the valorisation objectives
- Knowledge and insight in the valorization path

- Strategic importance
- Size and probability of the expected valorization (in case of scientific success)





**Follow-up**

# Start date



## Start date

At the latest, 6 months after the decision



## Retro-activity is possible:

Earliest possible start date = 1<sup>st</sup> of the month following the submission deadline

Period before the decision of VLAIO: at own risk

# Follow-up

- The funding is paid in **yearly instalments**, in the form of advance payments
- **Progress report** every year (for each payment)
- Interim assessment after 24 months
- **Final report**
- **Financial report** at the end of the project: corresponding to the real costs and committed funding rate, last payment = accepted funding minus the instalments already paid
- Changes within the scope of the innovation goal possible

# (Post-)doctoral programme in collaboration with industry: what's in it for the candidate?



Exposure to the private environment and acquire an insight of non academic organisations



Facing “real life” research problems



Joint supervision by professionals from industry



Broaden employability perspectives



Enable networking outside academic environment



Access to additional industry training, meetings, equipment and expertise

# (Post-)doctoral programme in collaboration with industry: what's in it for the company?



access to expertise at the university



new in-depth knowledge



student reinforces their research team



recruitment



build a strong bond with the university of your choice, development of your network



research in co-financed up to 80%

# 1<sup>st</sup> call in 2026

**(optional) exploratory meeting: February, 5 or 24**



**Deadline for submission: March, 10**



**Oral defence (indicative): May / June**



**Decision: July, 16**

# Policy initiatives

Bottom-up program, but special attention for

- Space applications (Frank De Winne mandaten)
- Einstein telescope
- Military applications



# Contact persons



Programme: Els Tourwé

VLAIO business advisors:

<https://www.vlaio.be/en/about-us/make-appointment-one-our-business-advisors>

**Questions?**

Mail to [baekeland-im@vlaio.be](mailto:baekeland-im@vlaio.be)