



‘Life Science with Industry’ Workshop 2019

11-15 NOVEMBER 2019, LEIDEN

Innovative solutions to your R&D problem within a week

To encourage cooperation and exchange of knowledge between academia and industry, the Netherlands Organisation for Scientific Research ([NWO](https://www.nwo.nl)), the Netherlands Bioinformatics and Systems Biology ([BioSB](https://www.biosb.nl)) research school and the Lorentz Center ([LC](https://www.lorentz.nl)) jointly organize the ‘Life Sciences with Industry’ Workshop 2019. In a stimulating setting at the Lorentz Center in Leiden, scientists and researchers from both academia and industry work closely together to find innovative solutions to scientifically challenging and commercially important R&D problems within a week. Participants are young and talented scientists (PhDs, postdocs and more experienced researchers) from different sectors of the life sciences, guided by senior researchers from industry and academia. We hereby invite you to participate with your R&D challenge.

Unique opportunity

The workshop offers your company the unique opportunity to have a dedicated and multidisciplinary team of highly motivated young scientists in the life sciences to tackle your specific R&D problem within a week. These teams integrate academic knowledge from different branches of the life sciences, including molecular and cellular biology, biophysics, genomics, bioinformatics, statistics, systems biology, biochemistry and bioengineering, thus ensuring that problems will be approached from different angles.

Creative and innovative solutions

Both large industry and SMEs have benefited from these workshops. Previous editions of the LSWI workshop have resulted in creative and innovative solutions for challenging R&D problems of for example Philips, DSM, Keygene, Bejo Zaden, Heineken, Nutricia Research, Danone, Unilever, Syngenta, Pam Gene International, Amsterdam Scientific Instruments, Corbion, FEI Electron Optics, NXP Semiconductors, Bioceros, Solynta, VITO and BaseClear.

Last year, the multidisciplinary teams have worked on the following challenging problems:

- Selective recovery of ethanol and aroma compounds from alcoholic solutions (Heineken)
- Quality Matters: how to monitor frying quality of potato tubers? (Solynta)
- A serious Game on Preventive Health (VITO)

Visit the following website to get an impression of the Life Science with Industry Workshop 2018:

<https://www.nwo.nl/en/news-and-events/news/2019/01/life-sciences-with-industry-workshop-experiences.html>

Expand your network

In addition, participation will strengthen your company's academic network, leading to possible new collaborative projects and partners, while having the chance to meet highly qualified potential employees.



Application procedure

Any company can apply by filling in the application sheet attached to this document. A total of four cases will be selected. The organisers strive to include R&D problems from both large industry and SMEs. The four cases will be selected according to the following selection criteria:

- Is the proposal scientifically challenging and does it pose concrete questions in the (broad) field of the life sciences?
- Does the problem address any relevant (societal) issues?
- Can, in principle, a (partial) solution be generated in one week of hard work?
- Is there active participation from the company during the workshop?

Confidentiality and Intellectual property

The main purpose of the workshop is the exchange of knowledge between industry and academia, and generated results are intended to be public. To ensure a free flow of information, all participants must sign a non-disclosure agreement (NDA) to enable information protection. Therefore you will have to ensure that your company agrees with the NDA that is provided by the organization.

Overall workshop programme

After the introduction of the four R&D problems by representatives of the companies in a plenary session on the first day of the workshop, small teams of scientists will work on the problems during the workshop week and have regular contact with the company representatives. Each team will concentrate on the case assigned to them although input from the other teams is stimulated amongst others via plenary mid-term presentations. Scientists from industry and academia actively participate during the week, providing the team with relevant input, and ensuring that proposed solutions remain realistic and feasible. In this way significant progress towards a practical solution or solutions for each R&D problem can be achieved. On Friday, the last day of the workshop, the teams will present and discuss their solutions in a plenary session.

Preparation before the workshop week

All participating companies will receive a notification on the approval of their application. Should your problem be selected, the organizers will contact your company in order to optimise the R&D problem proposal and tune it to the format of the workshop. Four problem proposals will be selected for the workshop. Prior to the workshop, the organization assigns each participant to one specific problem, thus forming four teams of five people. The companies are asked to provide relevant literature and documentation, so that the teams can prepare and start the workshop with a reasonable degree of background knowledge.

Costs

Most costs of the workshop are covered by the Lorentz Center, BioSB research school and NWO. A nominal contribution is requested from the participating companies.

- Companies with more than 50 employees: € 2,750 (excl. VAT)
- Companies with less than 50 employees and non-profit organisations: € 1,000 (excl. VAT)



Hotel costs of representatives from industry and possible other in-kind contributions are not included in these sums. Participating companies are expected that at least one of their employees is available at 3 days during the workshop week and can be contacted by the participants during the whole week.

Time line

30 April	Deadline submission R&D problems
15 May	Four R&D problems selected
27 May	Registration open for application of workshop participants
First half of September	Registration application closed
Second half of September	Selection of ~20 participants completed
11-15 November	LSwI2019 workshop

Organisation committee

The workshop is organised by the following persons and institutions. Please feel free to contact us if you have any questions.

- MSc Klara Scupakova (Maastricht University) (k.scupakova@maastrichtuniversity.nl)
- Dr. Gökhan Ertaylan (VITO, Belgium) (gokhan.ertaylan@vito.be)
- Prof. Bas Teusink (Free University Amsterdam, Research School BioSB) (b.teusink@vu.nl)
- Dr. Ansa Baykuş-Fiaz (NWO) (a.baykus@nwo.nl)
- Dr. Lisette Krul (NWO) (l.krul@nwo.nl)
- Dr. Margot Beukers (NWO) (m.beukers@nwo.nl)



Format proposals workshop 'Life sciences and Industry'

The deadline for submitting proposals is April 30, 2019.

The proposal should be written in English and structured as indicated below. The proposal should have a maximum length of two pages A4 and send via email to Ansa Baykus (a.baykus@nwo.nl).

1. Title

The title should be concise and clear.

2. Applicant(s)

Name(s) of the applicant(s) and company, postal address, email , phone number.

3. Academic partner (if applicable)

Name(s) of academic partner(s) and affiliation, as well as address, email and phone number.

4. Company information

Brief introduction (max. 100 words) of the company. Please add a company logo (as separate jpg or eps file).

5. Problem

Description of the life sciences-related problem (max. 500 words) that can realistically be tackled during the workshop. Please address the following issues:

- what can be realistically achieved during this workshop?
- which life sciences disciplines do you expect to be relevant to this problem?
- what is the urgency of this problem for the company?
- who will represent the company during the workshop?
- list of preferably five key references on background literature

Note that the participants of the workshop have different backgrounds (molecular and cellular life sciences, biophysics, informatics, systems biology, etc.) and experience (PhD students, postdocs).

6. Confidentiality

Please indicate if you agree with the NDA and fill in the form on the following page.

Please note

The information in your proposal will be used in the selection process before and, if selected, in discussions during the workshop. If all parties agree, then it may also be used for outreach and promotion activities in relation to the workshop.



NDA Life Science with Industry workshop 2019

The annual workshop 'Life Science with Industry' (hereafter: the Workshop) is jointly organized by the Netherlands Organisation for Scientific Research (NWO), the Netherlands Bioinformatics and Systems Biology (BioSB) research school and the Lorentz Center (LC). It is intended to encourage cooperation and exchange of knowledge between academia and industry. In the stimulating setting of the Lorentz Center, scientists and researchers from universities and companies work closely together during one week to find original solutions to the challenging R&D problem of each company (hereafter: "a Case"). For each of the four Cases, the organizers will appoint a team consisting of a company representative, (academic) supervisor and scientific researchers (hereafter each: a Participant). To stimulate a free flow of information between these Participants and to enable (patent) protection, it is important that the Participants are bound to rules with regard to secrecy and ownership.

Therefore the undersigned
employee of
Participant to Life Science with Industry in the period from 11 to 15 November 2019 **declares as follows:**

- (1) The Participant of the company will present its problem to the other Participants. In case the company Participant presents any information that it wishes to keep confidential, it shall clearly indicate such confidentiality on (the handouts of) the presentation by an appropriate mark (hereafter: Company Confidential Information). The Participants shall keep the Company Confidential Information confidential until 5 years after the workshop.
- (2) The company representative(s) and Participants of the workshop shall keep all results of the workshop confidential until the workshop organisation publishes the workshop proceedings or until 3 months after the workshop, whichever is earlier.
- (3) The Participants shall present their solutions in a final presentation at the end of the workshop. The organisers may invite the press to such final presentation.

In the event the company representative(s) wish that certain information is not presented because it is Company Confidential Information, the Participants shall remove such information from the presentation.

In the event the company representative(s) wish that certain information is not presented because the company is interested in patenting the information, publication of such information shall be postponed with a maximum of 3 months.

The company Participant of a Case shall timely (i.e. before the final presentation) inform the other Participants in that case of any of the above objections.

- (4) In accordance with Dutch law, the intellectual property rights to results of a Case rest with the employers of the Participants that contributed to these results jointly. In the event the

company participating in a Case wishes to obtain (exclusive) rights to use the intellectual property rights to the results of such Case, the company and the employers of the

Participants involved shall within two months after the workshop- in mutual consultation agree on:

- The protection measures (patent, copyright) and, cost thereof and the actions to be taken;
- The ownership and the inventors to be registered on a possible patent application;
- The market price to be paid by the company to the employers of the Participants involved.

(5) The employers whose employees have contributed to a patented solution have a royalty-free right at all times to use the results for the purpose of their own research and teaching, including the right to publication.

(6) The Participants and their employers shall not hold the organisers of the workshop liable for any damage that may occur and indemnify the organisers in case of any action, complaint or proceeding brought by a third party against them as a result of damage caused, either by any of their acts or omissions in relation to the workshop or by any products, processes or services created on the basis of results resulting from the workshop.

The Participant Signature: Date: Place:	On behalf of the employer of the Participant, agreed: Signature: Date: Place:
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