**Template for the final report for FBM Industrial practice**

**Part 1: Description of the host facility**

**Outline** (typical length of sections indicated, total length must not exceed 7 pages):

* **Abstract** (20 lines)
* **Products or services** (½ page): Description of the main products or services and their use by the customers
* **Marketing** (½ page): How are the products and services brought to the attention of the customers
* **Market share** (½ page): Reflect on the publicly available information regarding the market share of the host company
* **Process and facilities** (½ page): Describe the process employed at the host facility using a process diagram. Using publicly available figures, describe key descriptors (fermentor capacity, yield, production rate)
* **Organization** (1 page): Describe the organizational structure of the host facility, using an organogram for visualization
* **Cross-disciplinary competences** (1 page): Describe the professional interactions between employees in process engineering, fermentation technology, cell factory engineering, quality control.
  + Integration between these groups is the main purpose of the FBM initiative, so master students in FBM Industrial practice will have an important function in analyzing whether a lack of interaction lowers the efficiency of the host facility so that cross competences would be desirable.
* **Regulatory Constraints** (½ page): Describe which types of regulatory legislation the company is subjected to, and discuss how that could influence novel developments in the company
* **Innovation** (½ page): Reflect on how the company evolves through innovation, and how innovation is integrated into management decisions.
* **Sustainable development goals** (few lines): Describe how the company integrates sustainable development goals into their business

**Part 2: On-site experience in host facility**

**Outline** (typical length of sections indicated, total length must not exceed 10 pages):

* **Abstract** (20 lines)
* **Exposure** (1 page): Describe, aided by a table, the number of hours (or days) spend in different sections of the company, and which types of employees you were exposed to.
* **Tasks** (6 pages): Describe the recurring routines in the company, and which tasks you took part in or were exposed to.
* Each task should be described in a separate section with its own heading, and the following should be addressed in the text: Why is the task performed? How is it performed? How often is it performed? What will happen if it is not performed correctly? How important does it appear to be for the company? Technical tasks performed should be described in sufficient detail that conclusions can be scientifically justified.
* **Personal evaluation** (1 page): Describe which of your experiences in the company matched your expectations, and which that did not. Discuss the differences in what you expected and what you experienced. Describe what you found to function very well in the company, and what you found not functioning so well.

**Part 3: Complementary challenge related to on-site tasks**

**Outline** (typical length of sections indicated, total length must not exceed 10 pages):

* **Abstract** (20 lines)
* **Introduction** (½ page): Short description of the tasks you were exposed to on-site, and the choice of a single important task. Description of the complementary challenge.
* **Short literature review with discussion** (6 pages): A description, including references to published literature (at least 5 references of primary literature)
* **Conclusion** (½ page)

The exact complementary challenge should be identified by the student and agreed with the DTU supervisor. Different types of complementary challenges for different types of on-site experiences:

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| On-site experience | Complementary Challenge |
| Multiple tasks | Explain the **scientific aspects** for one selected task in detail. |
| R&D, and/or DTU project | Describe how to **translate** your project and/or its results into a production process. |
| Production | Explain the **scientific aspects** for one selected part of the production line in detail. |
| Downstream processing | Describe how your work in downstream is affected by upstream fermentation and explain the **interaction** between upstream and downstream. |