

Our two-week practical training at the Groupe IMT Tours in July 2026 was an amazing experience, during which we discovered the world of biopharmaceutical production from inside. It was important for us to gain practical knowledge and be a part of the production process. We started our training by building and programming a bioreactor for cell cultivation from A to Z. The complexity of the equipment at the facilities and the sterile environment. It was especially interesting to observe the downstream and upstream process, during which tangential flow filtration and chromatography techniques were used to separate the desired antibodies in theory and practice with different approaches of work. The second week of my training was no less important. We went through preparing the ointment and producing the solid dosage forms; it was a nice quest on how to eliminate any issue to get desired granules, their size and shape, and finally to make tablets. I really liked the dynamic of the work and the collaboration between the members of the team in both of the weeks as we were working with different machines. At the end we were a well-oiled machine. We had to deal with an unexpected situation when a mechanical failure case or excess of fluid occurred. However, we managed to address the issue and calibrate the temperature and airflow in time to avoid losses and gain insights on the process. The ability to conduct a real experiment and use the advanced technology of the pharmaceutical industry, such as near-infrared spectroscopy, is a valuable experience. Finally, we were able to finish the production line by pressing and coating the tablets. Practical training allowed us to gain a lot of new expertise and was a truly great experience, providing us with numerous insights. By attending the production processes within the GMP standards, I have learned a lot about the pharmaceutical industry and the current trends in the development of drug production technologies.

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