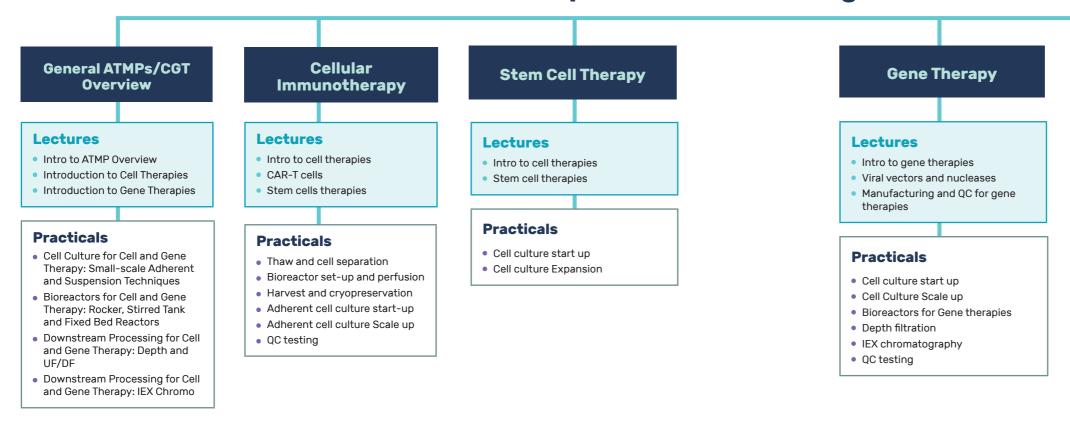
## **Advanced Therapies Manufacturing Curriculum**



## Vaccine Manufacture

## Lectures

- Vaccines and Immunity
- Vaccine Manufacturing Strategies
- Bioreactor Operation for Vaccine Manufacture
- Downstream Purification for Vaccine Manufacture
- Aseptic Fill for Vaccine Manufacture
- QC for Vaccine Manufacture

## **Practicals**

- Cell culture for vaccine manufacture
- Startup, scale up and production for suspension cells
- Startup, scale up and production for adherent cells
- Filtration for vaccine manufacture
- Chromatography for vaccine manufacture
- Formulation and filling of vaccines
- QC methods for vaccine manufacture