

# Pharmaceutical Sector Project List



Synertec has a long history in the pharmaceutical industry and has built extensive experience working with a diverse client list on a wide range of projects. A selection of Synertec clients and projects is provided below.

## CORE CAPABILITIES

- Concept design and detailed design
- Project management
- Design and construct
- Cost estimates and budgets
- Specialist multidiscipline engineering including process, mechanical, electrical, control, and automation engineering
- 3D modelling
- Independent safety systems for heating, ventilation, and air conditioning systems
- Automation systems
- Good Manufacturing Practice (GMP) validation and compliance services
- V-model systems engineering lifecycle analysis
- Front End Engineering Design (FEED)
- Validation services
- Qualification assessments
- Approvals and certifications for pharmaceutical authorities such as the United States Food and Drug Administration (FDA) and the Australian Therapeutic Goods Administration (TGA)
- Tender packages and evaluation
- Construction phase support
- Commissioning

Client	Project
CSIRO	Good Manufacturing Practice (GMP) accredited biological production facility, Clayton VIC
Merck Sharpe & Dohme (MSD)	Bacterial fermentation facility expansion, Bendigo VIC
Hospira/Mayne/Pfizer	Sterile cytotoxic filling and freeze, dispensaries upgrade, and critical building management system, Mulgrave VIC Manufacturing facility for potent topicals, Adelaide SA
CSL Broadmeadows & CSL Parkville, VIC	Privigen facility AlbuRX facility Research and development containment facility BioPlasma Clean in Place (CIP) sets and distribution loops Influenza virus vaccine facility Biotechnology manufacturing facility Flu enhancement facility
Medical Developments International (MDI)	Pharmaceutical scale-up, Mulgrave VIC ISO14644 Class 8 clean room GMP manufacturing facility expansions (multiple), VIC
Australian Red Cross Blood Services (now LifeBlood)	Multi-site GMP audit readiness, Brisbane QLD, Sydney NSW, and Melbourne VIC
Schering Plough (now MSD)	Inactivation vessel installation, Upper Hutt New Zealand
Genentech (now Roche)	Biotechnology plant, Singapore
GSKbio	Vaccines manufacturing facility, Singapore
Xepa SP	Multipurpose GMP manufacturing facility, Malaysia
Idaman Pharma	GMP manufacturing facility for oral solid dose, Malaysia
BioXCell (Malaysian Government)	Biotechnology Park with centralised utilities facilities, Malaysia
St. Jude Medical	30,000m <sup>2</sup> manufacturing facility, Malaysia
Phamaniaga Life Science	Small volume injectable facility (aseptic filled ampoules and vials), Malaysia
Biosearch (Pfizer)	Upgrade of Active Pharmaceutical Ingredient (API) production – fermentation and purification, Italy
Merck (BioE)	New FDA compliant biological vaccines manufacturing facility, India