



Your world leading CDMO.

## Packaging Design and Development Services

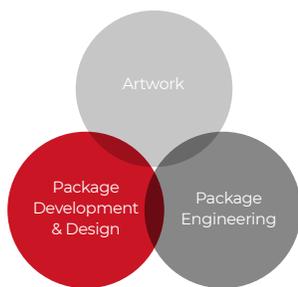
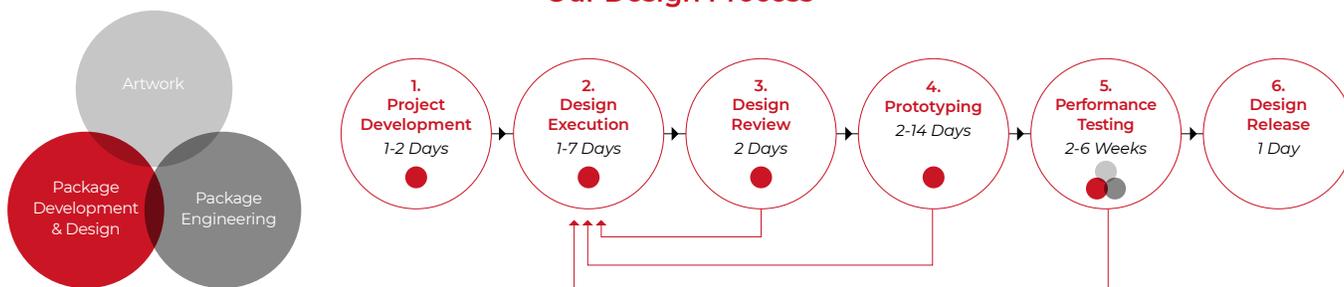
As a world class CDMO, we relentlessly strive to deliver better health outcomes for the patients we serve by combining our experience and expertise in science, manufacturing, and technology with our pristine customer service.

PCI's pharmaceutical packaging design department provides an innovative and value added service. Our dedicated team of in-house design specialists deliver insightful packaging design and practical knowledge to deliver differentiated and cost-effective packaging solutions. Using three-dimensional modelling, we are able to facilitate rapid prototype design and an expedited response to enable speed-to-market.

In addition, we are able to offer extensive capabilities in managing safety requirements including Child-Resistant (CR) and Senior-Friendly (SR) test protocols required for bringing new products to market.



### Our Design Process



Together, delivering life changing therapies.

# Design

## Package Design Overview:

### Design Conceptualization

- Creative package design
- Consultative approach for collaborative design
- Insights into potential challenges including child-resistance, adherence and product administration

### Rapid Prototyping

- 2D and 3D CAD design
- Graphic development
- Photo realistic package rendering

### Sample Creation

- Physical demonstration through commercial grade prototypes

### Performance Testing

- Child-Resistant (CR)/Senior-Friendly (SR) testing
- Market research
- Human factor studies
- Distribution simulation



**Why is Eco-Friendly Packaging Important?**

Federal governments are imposing stricter regulations and laws around sustainability. Government organizations are pledging to reduce or even ban plastic in the coming years, and thousands of companies are joining global initiatives, like Race to Zero, to pledge their commitment to positive change. With this shift, pharmaceutical companies should start considering the environmental impact of their packaging, even as early as Phase II or Phase III of their clinical trials.

### PCI's Sustainability Solution

PCI's in-house package design experts are equipped with technology that offers valuable insight into the impact your packaging has on the environment.

- Analyze the sustainability score of each component
- Select eco-friendly raw materials
- Compare costs between concepts
- Gain an understanding of the short-term and long-term impact of your packaging

### Products That Can Benefit:

- Biotech medicines
- Over-the-counter pharmaceuticals
- Consumer healthcare products
- Medical devices
- Specialty pharmaceutical products

### Did You Know?

- 100,000 units of the average thermoform tray equates to 59,912 kilometers (37,227 miles) driven by passenger vehicles every year. This is only for the materials and manufacturing of the tray itself!
- When shifting from a plastic tray to a molded paper fiber tray, we can reduce the global warming impact by 50%
- Transferring from a 24pt to 18pt paperboard carton for 100,000 units can reduce the water consumption by 25%, which equates to 156,511 gallons (592,458 liters) of water!