Our Research & Development program will give you the practical training for a career developing and creating innovative drug products. Get started today.

The Pharmaceutical Research & Development diploma is a program that teaches the theoretical knowledge needed to assist in the development and creation of innovative drug products. Students will get to experience these processes as they complete practical projects in TIPT's industry standard GMP facility.

One of the most unique aspects of our program is that students receive training not just within the industry standards but also in innovative drug development techniques at our GMP facilities.

Program Highlights
- Training in innovative drug development techniques
- Training in Health Canada-licensed GMP facility
- Small classes optimizing interaction
- High entry level salary
- Transferable skills to other industries

Admission Requirements
- Bachelor of Science (B.Sc) degree (Biology, Chemistry, Pharmacy, etc.)
- English proficiency
- Financial assistance available
- Vaccination and physical examination form signed by physician

Career Parallels
- Innovative development of pharmaceutical drugs
- Facility is fully GMP compliant and Health-Canada licensed, same as industry
- Practical team training under expert supervision
- Same equipment used in industry, used in training facilities

Who's Hiring Our Graduates?

“As the largest Canadian-owned pharmaceutical company, we find that TIPT is one of the key institutions that best prepares graduates for working in the pharmaceutical industry.”

Ron Davidson, VP of Human Resources, Apotex
Who is this program for?

This cutting-edge program is one of the most unique options offered at our institute, as we are the only college in Canada to provide pharmaceutical research & development training in a Health Canada-licensed facility. When you combine your current science background with this program, you increase your opportunities to make a mark in the industry.

You want to be at the forefront of innovation …

The Research & Development program provides you with the skillset and expertise to be involved in the development and creation of innovative drug products. Your training during our program will include ground-breaking studies in areas like pharmaceutical experimental design, formulation technology, pharmacokinetics and more – both in relation to drug development and drug delivery technologies.

You want to upgrade your skills to increase your job prospects …

Your training allows you to translate your newly acquired research & development knowledge into innovation in other fields outside of the pharmaceutical industry, including biotechnology, food, cosmetics, and other life science industries. Thanks to the unique components of the curriculum, employers in many industries have a high regard for our graduates which is exemplified by our very high employment rates.

What will I learn?

**MODULE ONE**

**Foundation**
Provides an in-depth knowledge of applied pharmaceutical sciences, biopharmaceutics, pharmacokinetics, regulatory affairs, leading edge industrial pharmaceutical research, applied statistics, and experimental design.

**MODULE TWO**

**Core**
Focuses on practical training in pharmaceutical experimental design, formulation technology, manufacturing techniques, analytical techniques, problem solving, protocol, and technical writing skills. Hands-on experience acquired through team-based projects in compliance with GMP and GLP.

**MODULE THREE**

**Advanced**
Provides an opportunity to engage in independent drug development and research projects with a focus on drug delivery, dosage form design, process development, and scale-up technology.

Pharmaceutical Research Themes
- Pharmacology Project: Pharmaceutical Expert research report
- Pre-formulation & Compatibility Studies
- Compression Technology: scientific basis for excipient selection
- Predictive DOE for immediate release solid dosage formulation
- Granulation process development
- DOE for generic drug development
- Development of Controlled Release Formulation
- Formulation Scale-up Study

Internships
Students who are at the final stages of their program and have excelled in all aspects of their training may apply for an internship. These opportunities allow selected students to gain additional experience through working with staff and faculty on one of the many unique projects undertaken at the Institute.
How long will it take?

TIPT is excited to introduce an accommodating set of three options to ensure all students are able to complete the program regardless of any schedule restrictions. Schedule a consultation to learn more about our course flexibility.

Full-Time

- Full-time weekly daytime classes
- Duration: Completed in 52 weeks
- Ideal for students committed to focusing on their studies

Flex

- Full-time classes on evenings and weekends
- Duration: Completed in 52 weeks
- Ideal for students who work or study elsewhere during the day

Flex+

- Part-time classes built to accommodate your schedule
- Duration: Part-time flexibility over longer durations
- Ideal for students who want to take extra time

What’s next?

Register for the next start date ...

Now that you have a good sense of TIPT’s Research & Development program, you can fill out an application to register online. Once you have sent your completed application, our Admissions team will review your documentation and be in touch with you from there.

Book a campus tour ...

We’d love to have you visit our state-of-the-art GMP standard and Health Canada-licensed facilities. Book a time to see our campus and meet some of our Admissions team.

Explore financing options ...

Whether you’re paying yourself, being sponsored by your company, or taking out financing, we are able to help guide you through the tuition payment process.

Learn about career opportunities ...

Your career opportunities increase with a TIPT diploma in hand. We have an entire career placement team to help ensure you land a job after graduation, thanks to our strong connections with hiring and management teams within top pharmaceutical companies.