

PTEC

Pembina Trails Early College
Jane Bachart

Principal, PTEC = 09.2016-09.2023

Vice Principal, Pembina Trails Collegiate = 09.2023

@Pembina Trails Collegiate

AGENDA

PTEC will be moving to PTC in September of 2023.
All students who receive a seat at PTEC will need to attend PTC.

HOW
PTEC
WORKS

WHO
SHOULD
APPLY

WHY PTEC
WORKS

PROGRAM Model

Pembina Trails Early College (PTEC) is a program that has been specifically designed through collaboration with industry involvement, Pembina Trails Collegiate, and the Manitoba Institute of Trades and Technology.

By delivering accelerated programming in the sought-after technical streams of software development, cyber defence, and networking, our program has created a comprehensive and authentic experience for students who are interested in the digital world as a career.

2023

Five years ago



HOST HIGH SCHOOL

Students in grades 9 - 12 attended one of our four high schools to complete their compulsory course requirements



PTEC / MITT

Students in grades 9 & 10 attended SmartPark for their high-tech courses.

In grades 11 & 12 they moved to MITT for Software Developer or Networking and Systems Administrator

PTEC

2018 / 2019



2019 / 2020



2020 / 2021



2021 / 2022



2022 / 2023



2023 / 2024



PTC

Pembina Trails Collegiate
will be PTEC's new home in
09.2023.



PTEC partners and their roles

The people who support our
students

Team Member 1

Pembina Trails Collegiate &
Pembina Trails School Division

Team Member 2

Manitoba Institute of Trades and Technology

Team Member 3

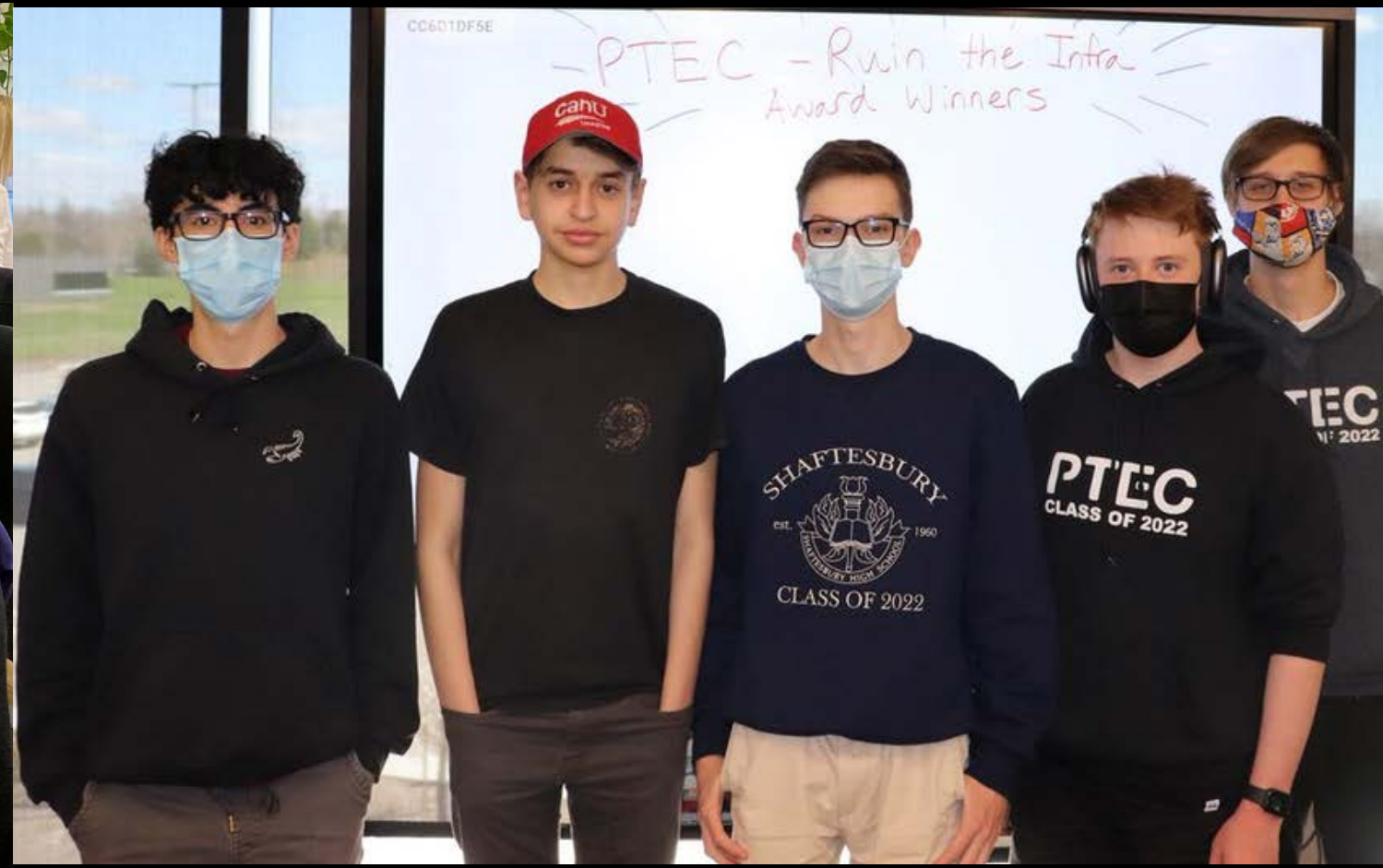
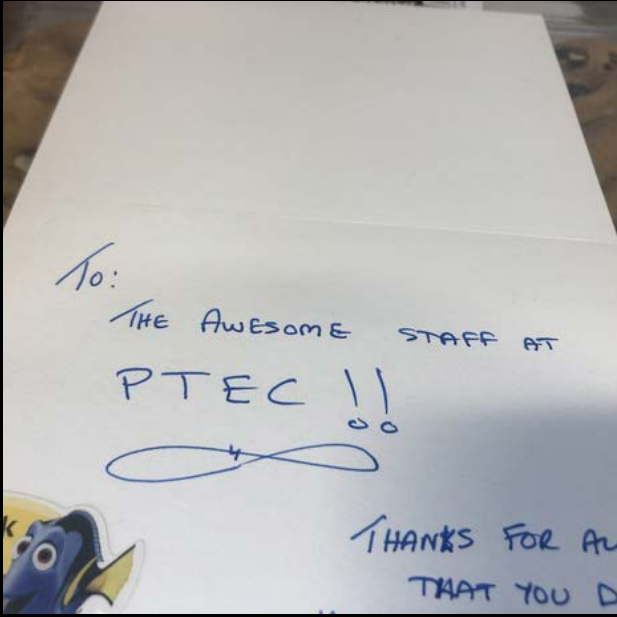
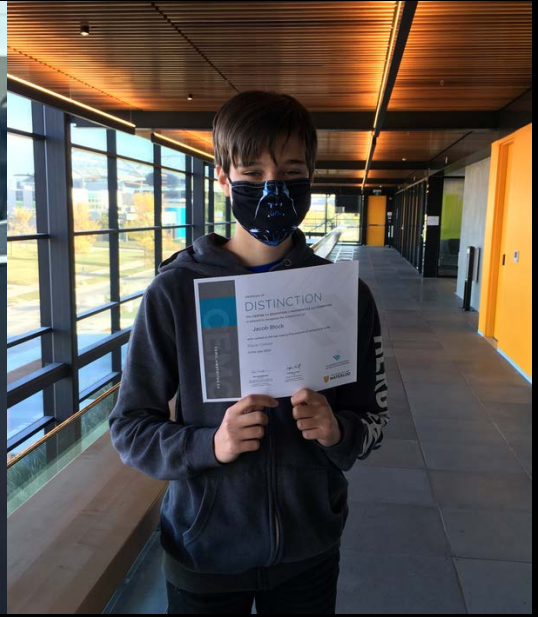
Tech Manitoba

**PEMBINA
TRAILS SCHOOL
DIVISION:**

**Pembina Trails
Collegiate**



EXPECTATIONS



Sending Schools

Over 1000 students to present to

Acadia Junior High School
Arthur A. Leach School
BISON RUN School
Ecole Charleswood School
Ecole South Pointe School
Ecole Van Wallegghem School
Ecole Viscount Alexander School
General Byng School
Henry G. Izatt School
Laidlaw School
Linden Meadows School
River West Park School
Westdale School



THINGS TO THINK ABOUT: Transportation

ALL PTEC students must find their way to PTC by using personal transportation

divisional device

During your time at PTEC (grade 9 and 10) students will have access to divisional devices to support their learning.

In grades 11 & 12 students will have to save for a more robust machine to build their dreams!



Spend their morning in their INTERDISCIPLINARY courses at PTC.

In the afternoon students are learning their PTEC courses.

Grade



2023

Semester One & Two



Networking Essentials

Software Developer & Networking and Systems Administrator

@Pembina Trails Collegiate

14

14

16

Spend their morning in their PTEC courses at PTC.

In the afternoon students are learning their INTERDISCIPLINARY courses.

Grade

10

2023

Semester One & Two



CyberSecurity Essentials
IT Essentials

Software Developer & Networking and Systems Administrator

@Pembina Trails Collegiate

16

16

18

FREEDOM Friday

AI, AR, VR, UX/UI,
Machine Learning,
LUA, BLENDER,
PYTHON

Extra Curricular

eSports

- League of Legends
- Rocket League



D&D

We have a virtual and in-person D&D club that plays every Tuesday



Games Club

Every Wednesday we play Super SmashBros and ultimately have a final tournament



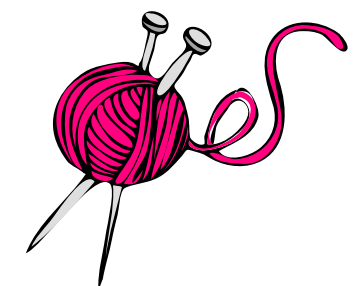
Cyber Patriot

We have over ten teams that compete with people around the world, every Tuesday and Thursday



PTC

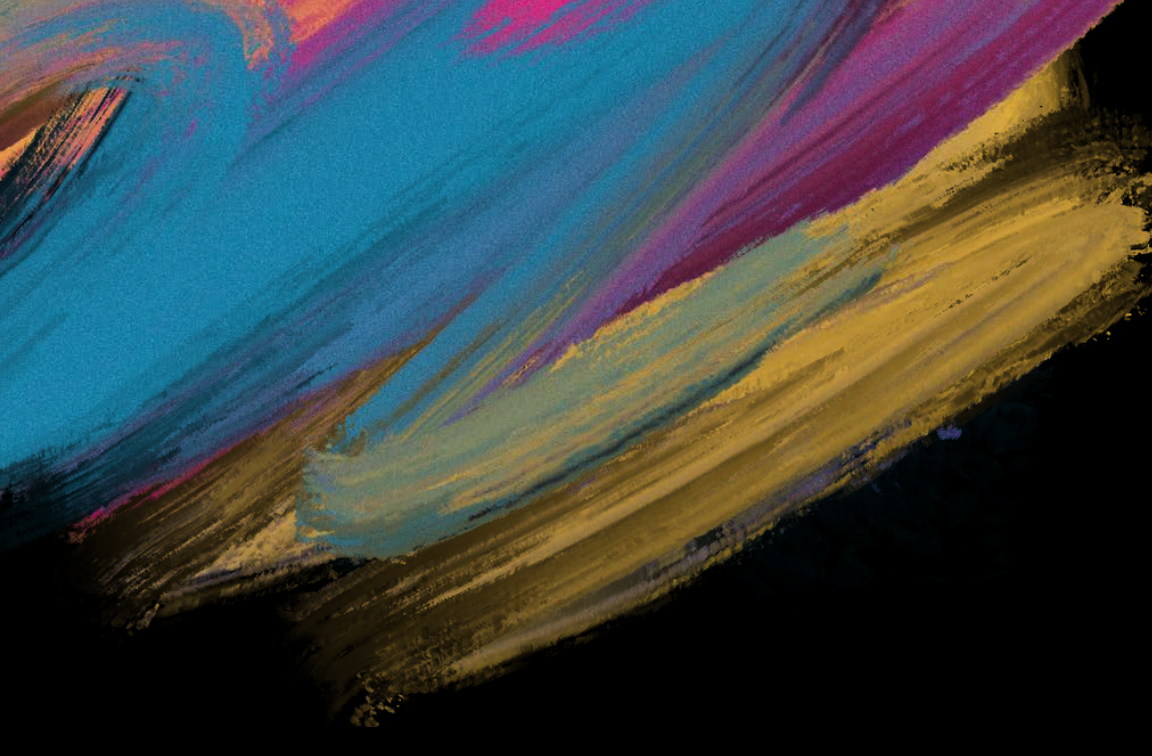
Your school will have alternative activities that you can join during lunch hour or after school - stay tuned



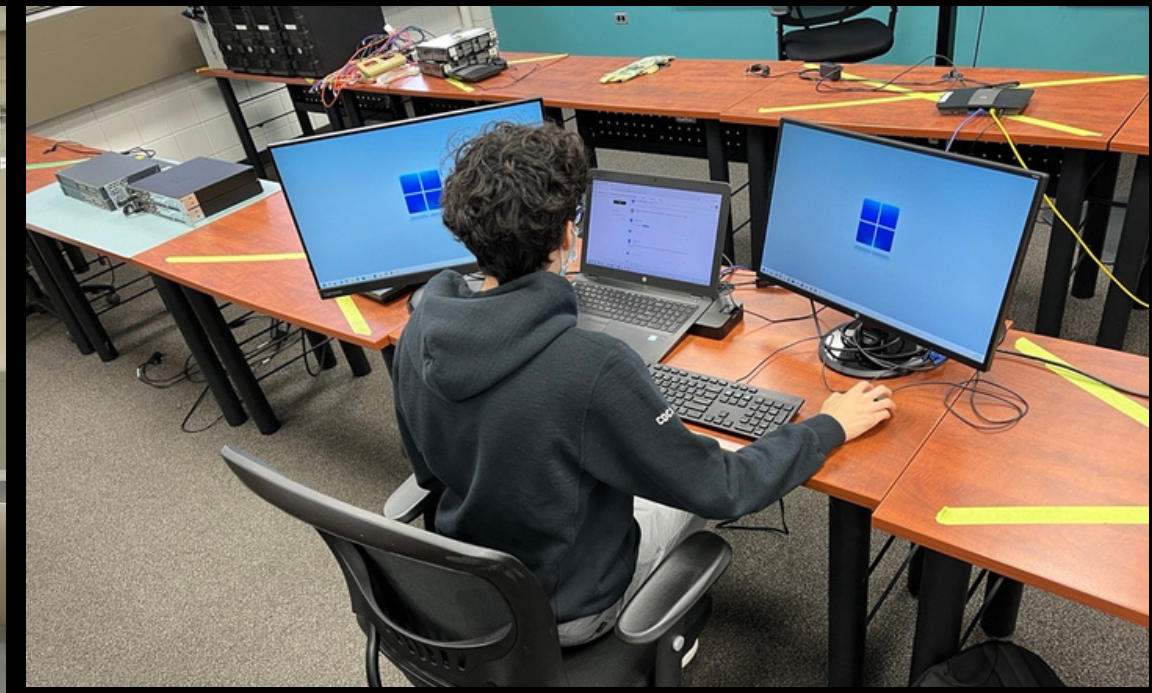
**POST-
SECONDARY:**



**MANITOBA INSTITUTE OF
TRADES & TECHNOLOGY**



MITT



MITT FACILITIES



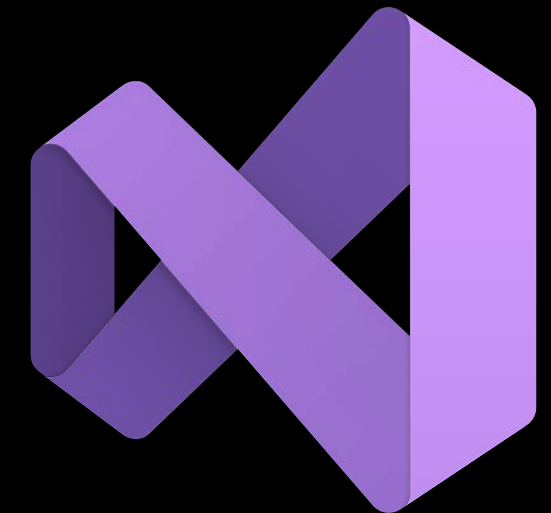
Grade

Spend the morning in their interdisciplinary courses at PTC.

In the afternoon students are at MITT learning their post-secondary courses in either Software Developer or Networking and Systems Administrator



Software Developer



Network and Systems Administrator

CompTIA®



Networking
CISCO™ Academy



Red Hat
Academy



Microsoft Azure



Office 365



Grade

12

Spend the morning at MITT learning their post-secondary courses

In the afternoon students are at PTC learning their interdisciplinary courses



(Early) College Life

Expectations

- Participate
- Learn
- Commit Time
- Practice
- Have fun!

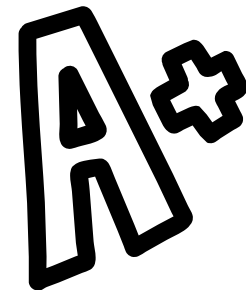


Dual Credits

HS + PS credit for courses at MITT

Letter grades + % on MITT Transcript

"S" on HS Transcript



Program Based

- Academic Standard
- Linear Progression
- Pass each course



Future PS

MITT = Post Secondary

Impacts on applying for further post-secondary

Credit Transfer



MANITOBA INSTITUTE OF TRADES & TECHNOLOGY

Practicum

Summer after Grade 12

7-weeks on-the-job learning with a local company



INDUSTRY:
Tech Manitoba

Is one of Manitoba's major tech industry associations, dedicated to facilitating connections and growing our tech sector. With over 130 corporate members and representing over 10,000 employees.

industry professionals

Looking to engage with the next generation of Manitoba's tech professionals? Tech Manitoba offers a variety of ways to share your talents and experiences with enthusiastic students looking to plan their career path.



tech manitoba x pembina trails early college

Shape the future of Manitoba's tech industry. Tech Manitoba works closely with Pembina Trails Early College (PTEC) and Manitoba Institute of Trades and Technology (MITT), helping to facilitate industry-focused mentorship opportunities for this tech-centric accelerated high school, early college program.

PTEC combines the flexibility of high school, the rigor of post-secondary and the support and knowledge of the tech industry to create a comprehensive and authentic experience. Students enrolled in the four-year PTEC program leave with a high school diploma; a post-secondary certificate and a head start in an exciting career.

Get Involved



- Members
- Industry
- Community
- Events + Training
- Job Postings
- About
- Initiatives



build connections

Tech Manitoba grows the province's tech sector by connecting industry experts to share skills, explore ideas and establish a strong community.

Join now

TECH MB Mentorship

**Industry in
the classroom
Grade 9**



**Project-based
mentorship
Grade 10**



**Building your
career in Tech
Grade 11**

- 24-7 Intouch
- AGI
- Bitspace
- Bold
- City of Winnipeg
- College of Physicians
- Fannex
- Farmers Edge
- Friesens Corporation

**INTERNSHIP
Grade 12**

- Lumo Interactive
- MNP
- NSD Tech
- Permission Click
- Price Industries
- Province of Manitoba
- Saber Blitz
- Secure Retail POS Systems
- Sightline Innovations
- Skyline Aviation
- SYNC Digital Solutions



The background features a series of broad, overlapping brushstrokes in vibrant colors: teal, yellow, magenta, and purple. The strokes are layered and textured, creating a sense of movement and depth against a solid black background. The text is centered over the teal and yellow strokes.

**How to become
one of our
students**

PTEC students focus on:

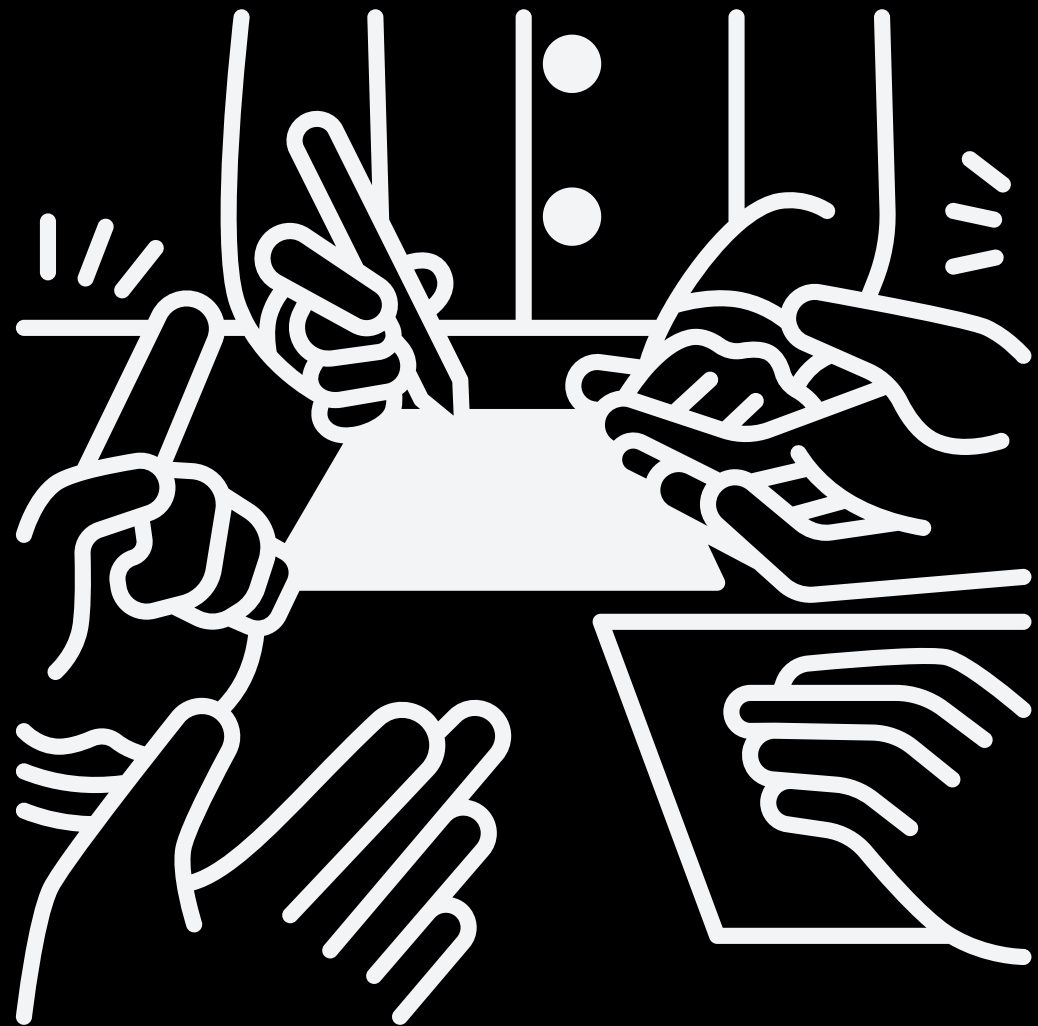
Collaboration



Creativity



Problem solving



TECH FOR GOOD

STEP BY STEP:

Go to our website > about us > how to apply for PTEC

The screenshot shows the PTEC Early College website. At the top, there is a green banner with the text "Administration Offices - Winter Break closure days" and a "Learn More" button. Below this is the PTEC logo and the text "Early College". To the right of the logo are links for "SCHOOL DAY 5", "QUESTIONS", "TRANSLATE", "SIGN IN", and social media icons for Facebook, Twitter, and LinkedIn. A purple navigation bar contains the following menu items: "About Us", "What We Offer", "Calendar", "Community", "Contact Us", and "Family Wellness Resources". A search icon is located on the right side of this bar. Below the navigation bar, there are three columns of links: "Who We Are" and "How To Apply For PTEC!", "School Handbook" and "Standard Of Behaviour", and "News" and "Open House 2023". The main content area features a large image of a group of students sitting on a stage. To the left of the image, the text reads "First Grads From PTEC Make History" and "Students". Below the image is a "Read More" button and navigation arrows. At the bottom of the page, there is a row of six circular icons with corresponding text: "M.I.T.T. Software Development", "M.I.T.T. Cyber Defence & Cloud Admin", "Report Card Viewer", "PTEC Portal", "CyberPatriot", and "Young Worker Readiness Course".

STEP BY STEP:

How to apply > letter of intention



Home / About Us / How to Apply for PTEC!

About Us

Who We Are

[How to Apply for PTEC!](#)

School Handbook

Standard of Behaviour

News

Open House 2023

What We Offer >

Calendar >

Community >

Contact Us >

Family Wellness Resources

HOW TO APPLY FOR PTEC!

December 20, 2022

We are very excited to move into our new digs at [Pembina Trails Collegiate](#) (PTC)! While we had great experiences at the SmartPark Innovation Hub, we are over the moon to be in a school that has state-of-the-art design and programming.

PTEC is continuously improving how we do school. While we have found much success in the past four years. We, like technology, are going through an upgrade.

PTEC will maintain its high level of accelerated technology programming in both Cyber Security and Software Development, we will do it just a bit differently starting with the application process.

Over the past years, we have had over 250 students on the waiting lists. We want to have options for all of our Pembina Trails Students in a way that suited their understanding and needs to be technology-educated students. To make sure we have the right formula and technology programming for our students, we would like students to not only apply but also send us a letter of intention.

***NEW* APPLYING FOR PTEC AT PTC - 2023-24 SCHOOL YEAR**

Any current grade 8 student residing in the Pembina Trails catchment area can apply to PTEC at PTC.

When applying, students must fill out the application form fully, and include a letter of intention. Our application site will be open from **January 5th to March 3rd, 2023, at noon.**

The letter should contain the following:

- Your name
- current school
- current grade
- what you know about PTEC
- why you would be a great fit for PTEC
- something interesting about yourself
- what about technology interests you
- what would you like to learn more about in technology?

Both application form and letter of intention should be emailed together to ptec@pembinatrails.ca before March 3, 2023 at noon to be considered.

We wish everyone the best of luck as they apply for PTEC at PTC!

[Click here for application form.](#)

Letters of Intention should include:

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STEP BY STEP:

How to apply > application > fill in and save/print

Home / About Us / How to Apply for PTEC!

- About Us
- Who We Are
 - [How to Apply for PTEC!](#)
 - School Handbook
 - Standard of Behaviour
 - News
 - Open House 2023
- What We Offer
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We wish everyone the best of luck in applying for PTEC at PTC!

[Click here for application form.](#)

PTEC APPLICATION

PEMBINA TRAILS EARLY COLLEGE | 2023/2024 | PEMBINA TRAILS COLLEGIATE
50 Frontier Trail | Winnipeg, MB | R3Y 2H1

You must apply to be considered for one of thirty-two spots at PTEC. Once you have emailed your application and intention letter, you will receive a confirmation email. Final due date for sending in applications and letters is March 3, 2023.

1. STUDENT / FAMILY INFORMATION

| | | | |
|--|--|--------------------------------|-------------|
| LAST NAME | | FIRST NAME | MIDDLE NAME |
| SCHOOL ATTENDING DURING THE 2022/2023 SCHOOL YEAR | | GRADE | |
| | | 8 | |
| STREET ADDRESS | | CITY | PROV |
| | | WINNIPEG | MANITOBA |
| # 1 PARENT/GUARDIAN NAME & RELATIONSHIP TO APPLICANT | | #1 PHONE INCLUDING AREA CODE | |
| #2 PARENT/GUARDIAN NAME & RELATIONSHIP TO APPLICANT | | #2 PHONE INCLUDING AREA CODE | |
| FAMILY EMAIL ADDRESS (REQUIRED FIELD FOR CONTACT) | | STUDENT PERSONAL EMAIL ADDRESS | |

2. CHECKLIST

| | |
|--|---|
| <p>Did you fully complete the following:</p> <ul style="list-style-type: none">ApplicationLetter of intention - the letter of intention should contain the following: Your name, current school, current grade, what you know about PTEC, why you would be a great fit for PTEC, something interesting about yourself and what about technology interests you. <p>Did you email BOTH the application and letter of intention to: ptec@pembinatrails.ca before March 3, 2023 at noon to be considered?</p> | <p>Who is NOT eligible to apply:</p> <ul style="list-style-type: none">International studentsStudents that do not reside in the Pembina Trails School Division boundaryStudents who intend to continue to be in French Immersion <p>Did you know:</p> <ul style="list-style-type: none">You will need to attend Pembina Trails Collegiate (PTC)Pembina Trails Collegiate is an English schoolYou will need to find your own transportation to and from PTC and MITT |
|--|---|

3. SIGNATURES


I have confirmed and certify that all the information on this form is true and complete to the best of my knowledge.

| | |
|---------------------|----------------------|
| STUDENT NAME | |
| PARENT NAME | |
| DATE OF APPLICATION | FOR OFFICE USE ONLY: |

PLEASE FILL OUT THE ENTIRE APPLICATION.
Include not only the application but also the letter of intention.
Having the application without the letter will result in a default on the application.
RETURN APPLICATIONS VIA EMAIL, MAIL OR DROP OFF by March 3, 2023:
SMARTPARK INNOVATION HUB – SUITE 250 - 100 INNOVATION DRIVE, WINNIPEG, MB, R3T 6Z6
T: (204) 560.1999 | E: PTEC@PEMBINATRAILS.CA
@PTECwinnipeg

STEP BY STEP:

email to ptec@pembinatrails.ca > application > letter of intention

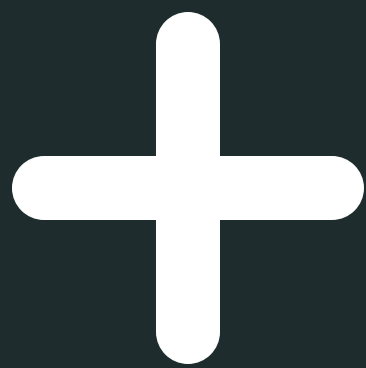
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|--|----------------------|---|-----------------------|
| LAST NAME | FIRST NAME | MIDDLE NAME | |
| SCHOOL ATTENDING DURING THE 2022/2023 SCHOOL YEAR | | | GRADE |
| STREET ADDRESS | | | CITY PROV POSTAL CODE |
| #1 PARENT/GUARDIAN NAME & RELATIONSHIP TO APPLICANT | | #1 PHONE INCLUDING AREA CODE | |
| #2 PARENT/GUARDIAN NAME & RELATIONSHIP TO APPLICANT | | #2 PHONE INCLUDING AREA CODE | |
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| Did you fully complete the following: | | Who is NOT eligible to apply: | |
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| Did you email BOTH the application and letter of intention to: ptec@pembinatrails.ca before March 3, 2023 at noon to be considered? | | Did you know: | |
| | | <ul style="list-style-type: none">You will need to attend Pembina Trails Collegiate (PTC)Pembina Trails Collegiate is an English schoolYou will need to find your own transportation to and from PTC and MITT | |
| 3. SIGNATURES | | | |
| I have confirmed and certify that all the information on this form is true and complete to the best of my knowledge. | | | |
| STUDENT NAME | | | |
| PARENT NAME | | | |
| DATE OF APPLICATION | FOR OFFICE USE ONLY: | | |

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SMARTPARK INNOVATION HUB – SUITE 250 - 100 INNOVATION DRIVE, WINNIPEG, MB, R3T 6Z6
T: (204) 560.1999 | E: PTEC@PEMBINATRAILS.CA
@PTECWinnipeg



Letter of Intent

Anukriti Gupta
AK-56/ Shalimar Bagh
New Delhi-110078
contactanugupta@hotmail.com
Mr Harshit Khandelwal
Dean of the University of Essex
24-Central Avenue

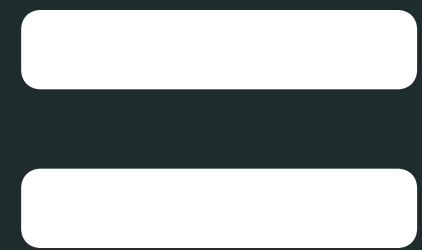
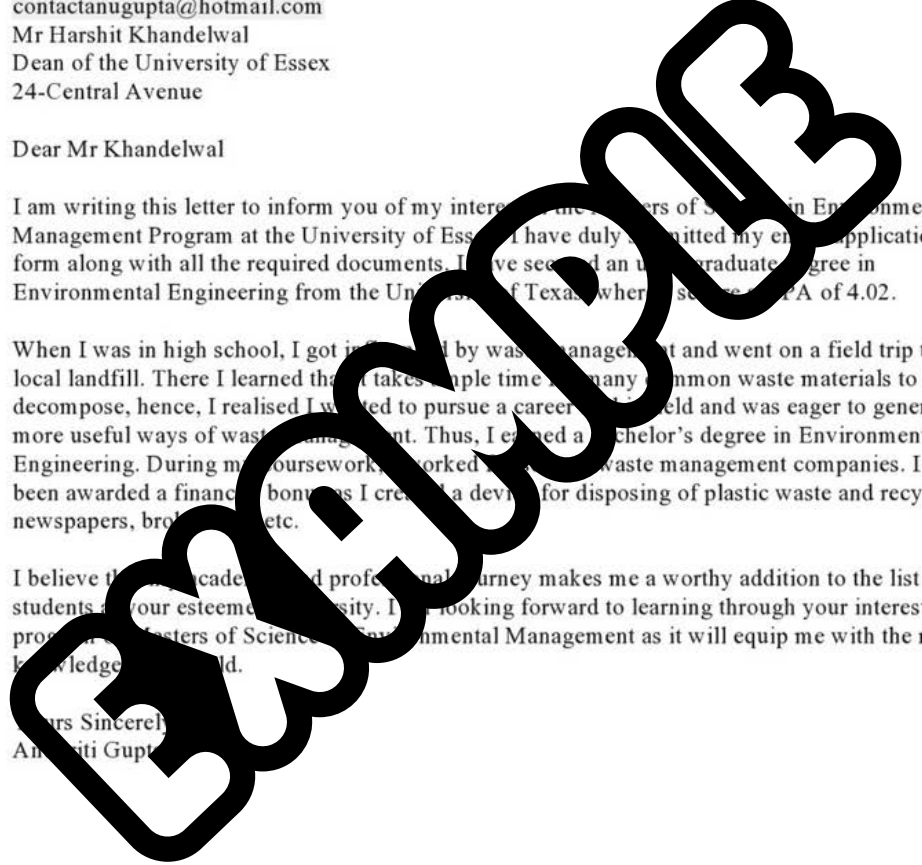
Dear Mr Khandelwal

I am writing this letter to inform you of my interest in the Masters of Science in Environmental Management Program at the University of Essex. I have duly submitted my entire application form along with all the required documents. I have secured an undergraduate degree in Environmental Engineering from the University of Texas where I secured a GPA of 4.02.

When I was in high school, I got inspired by waste management and went on a field trip to the local landfill. There I learned that it takes a long time for many common waste materials to decompose, hence, I realised I wanted to pursue a career in this field and was eager to generate more useful ways of waste management. Thus, I earned a Bachelor's degree in Environmental Engineering. During my coursework, I worked for two waste management companies. I have been awarded a financial bonus as I created a device for disposing of plastic waste and recycling newspapers, bro... etc.

I believe that my academic and professional journey makes me a worthy addition to the list of students at your esteemed university. I am looking forward to learning through your interesting program in the Masters of Science in Environmental Management as it will equip me with the right knowledge to contribute to the world.

Yours Sincerely,
Anukriti Gupta





Application & Letter of Intent

DUE: Friday, March 3, 2023 at 12:00pm NOON

www.pembinatrails.ca/earlycollege

Applications through the years:

2018-2019 = 32 applied - 30 were accepted

2019-2020 = 60 applied - 30 were accepted

2020-2021 = 93 applied - 32 were accepted

2021-2022 = 115 applied - 32 were accepted

2022-2023 = 144 applied - 32 will be accepted

2023-24 = ? - 32 accepted and 10 on the waiting list

APPLICATIONS DUE BY: March 3, 2023

YOU WILL BE NOTIFIED BY EMAIL BY: March 9/10, 2023

**STUDENTS ARE
SELECTED BY
LOTTERY**



IF YOU ARE CHOSEN

If your name has been chosen, you will receive an email letting you know that you are one of 32 students which have received a seat and you will need to answer within 24 hours.

- if **you choose to take the mission**
 - we will register you at PTC
 - you need to attend the Welcome to PTC and PTEC presentation
 - find transportation to and from PTC, home and MITT
 - enjoy the next four years of your exciting life!

- if **you choose to decline the mission**
 - your name will be removed and the next person on the waiting list will be called
 - the newly appointed student will have to give us a response within 24 hours
 - if that person takes the seat, we halt. If they don't, we move to the next student

Typically, there are around 60+ students on the waiting list and only the first 20 students on the waiting list will be acknowledged.

Where PTEC leads you



Get in Touch

Website

www.pembinatrails.ca/earlycollege

SmartPark Innovation Hub
Located on the University
of Manitoba Campus -
June 2023

Phone

204.560.1999

Pembina Trails Collegiate
New Address
September 2023

Twitter

@ptecwinnipeg

Email

ptec@pembinatrails.ca

A stylized, glowing digital head composed of white lines and dots, set against a dark background. The head is filled with binary code (0s and 1s) and network-like connections. The overall aesthetic is high-tech and futuristic.

**Imagine
your future**

