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Project Title:	IT Projects for Accessories Service Engineering		
Objective:	To develop the electronic version of the engineering production board, link the P&WC internal publishing system to Sharepoint site and develop the electronic version of the PWAS TCQP board.		
Description:	Engineering production/PWAS TCQP boards are currently manual updated on a daily basis based on information pulled from SAP, which is time consuming. The electronic version will be automatically updated in real-time, which will provide accurate information at any time of the day. Sharepoint sites have been deployed through Accessories, which create many opportunities better share information among various persons/groups automatically. Various other small projects.		
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Deliverables:	Electronic version of the engineering production and PWAS TCQP boards and P&WC internal publishing system link to Sharepoint site.		
Benefit:	This project will allow having access to better information in real time while in an automated way reducing/eliminating manual intervention.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	Microsoft office suite (Excel, Word, Access) SAP		
Pre-requisite:	Undergraduate student in computer science with leadership and team player skills, autonomous, motivated and inquisitive. While Internship is set in a predominantly French environment, acceptable level of English is required since all technical documents are written in English. Internship will take place at Pratt & Whitney Canada plant 5 (St-Hubert)		

Contact Name: Éric D'Amour

Location: Saint-Hubert

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Project Title:	Metallographic Analysis and Participation in Development of a New Thermal Spray Technology		
Objective:	Improve repair processes robustness & develop component repair techniques.		
Description:	The Pratt & Whitney Canada (P&WC) Service Center represents a complete business from the aftermarket point of view and works in a highly effective teamwork environment. The service center specializes in the repair and overhaul of P&WC engines and components. In a laboratory and shop environment, the Student will participate to component repair business & repair shop. The Student will also contribute to the improvement of metallurgical and chemical processes. Finally, the Student will provide significant contribution to the technology development project by contributing to the ongoing testing program.		
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Deliverables:	Specimen preparation. Microscopy observations and analysis performed. Contribute to the development of new thermal technology parts applications in conjunction with NRC Contract and researches scope. Continue development work on masking operation prior to thermal process deposition.		
Benefit:	Prepare and perform laboratory evaluations necessary to benefit daily activities and various research programs such as : Development follow-up on thermal deposition testing program		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time		
Software:	Microsoft office suite (Excel, Word, Powerpoint)		
Pre-requisite:	Undergraduate Mechanical Engineering Student Good knowledge of Gas Turbine engine operation First or second year of mechanical engineering degree French and English spoken, read and written Capable to work in a shop environment		

Capable to work with a minimum of supervision
Capable to work on metallurgical and chemical processes analysis

Contact Name: Pierre Verrier

Location: Saint-Hubert

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Pratt & Whitney Canada

Une société de United Technologies / A United Technologies Company

Project Title:	Manufacturing Engineering Project		
Objective:	Define, plan and supervise equipment installation and startup.		
Description:	The Pratt & Whitney Canada (P&WC) service center represents a complete business from the aftermarket point of view and works in a highly effective teamwork environment. The service center specializes in the repair and overhaul of P&WC engines and components. Plant 5 wishes to get the help of a student as a project manager for the installation and startup of new equipments and technologies.		
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Deliverables:	Project plan, schedules, risk management plan.		
Benefit:	Increase capacity to put into service new equipment and new technologies in plant 5, in direct relation with 5 year transformation plan.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	Microsoft office suite (Excel, Word, Powerpoint)		
Pre-requisite:	Undergraduate Industrial or Mechanical Engineering Student Good knowledge of project management tools and techniques French and English spoken, read an written Capable to work in a shop environment Capable to work with a minimum of supervision Strong leadership and team working skills.		
Contact Name:	Bernard Therrien		
Location:	Saint-Hubert		

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Project Title: Operational Support to APU (Auxiliary Power Unit) Transition in ECN (Externals Controls Nacelles)

Objective: Support APU Transition project in ECN.

Description:

- Delivery assurance follow up for ECN supplier (manual process until xRM is up and running)
- compiling and Loading the 5012 forms in Documentum and follow up on approval process;
- Pricing Agreement upgrade for all suppliers (making sure that the list of parts on the PA is complete and that it covers all active part numbers, including Spares);
- Mapping process and SAP optimization for End items (such as Tailcones and nacelle components) and optimize the Bill of Material for those items;
- Optimization of off-the-shelf electronic components: study type of parts and explore possible contract with a Distributor;
- Supplier development assessment (how to adapt PWAP's assessment to our P&WC criterias);
- Resourcing opportunities with PWAP suppliers (study each supplier's core business and identify resourcing opportunities);
- Manage the potential push back from current PWAP suppliers that would reject our POs or contractual documents;

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Deliverables: Full transition of PWAP APU business in PWC system for ECN components.

Benefit: Achieve OTC target for ECN components to have no impact on APU engine deliveries.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Full-Time

Software: MSWord/Excel/PPT

Pre-requisite: Undergrad in business or engineering

Contact Name: Amir Daniel

Location: Longueuil

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Pratt & Whitney Canada

Une société de United Technologies / A United Technologies Company

Project Title:	Project Coordinator Ryder Integration KPI and Delivery Assurance		
Objective:	<ul style="list-style-type: none">- Coordinate all tasks to achieve expected results through the successful and timely completion of activities.- Support and develop KPI's for Ryder integration.- Support Sharepoint migration of material flow Andon folder.		
Description:	<p>This project aims to improve business performance related to risks reductions, overall material flow & customer satisfaction.</p> <p>The student's main responsibilities will be:</p> <ul style="list-style-type: none">- Takeover of the maintenance and execution of the Ryder integration.- Maintain and update training plan for Ryder integration.- Manage roadblocks of Ryder integration, seek resolution to issues via One company project team reviews - Support One company. <p>The Student will be expected to enhance the standard work and training material. He/She will have the opportunities to establish a wide network across a variety of business functions.</p> <p>The candidate will gain in depth experience on management of business project risk which significantly impacts company strategy focused on material flow & customer satisfaction.</p> <div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>		
Deliverables:	Process and KPI's defined and a standard work that will tracks the on time to ship.		
Benefit:	The Project will help the Integrated material flow group at Pratt&Whitney to increase the service level to the assembly line and to the aftermarket.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	Excel Advanced, Access, Visual basic, PowerPoint		

Pre-requisite: Undergrad student comfortable with IT.
The student must have good interpersonal skill and be able to interact and influence organizational decisions.

Contact Name: Abdoulaye Houla Sanda

Location: Longueuil

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Project Title: Support technique, gestion de projets et étude de faisabilité de nouvelles composantes

Objective: *French follows*

Achieve entry-into-service of new accessories and of upgrades related to test rig equipment. Accessories Services will have capacity to perform in-house maintenance on this component. Upgrade of new EEC and possible FADEC test equipment (contributory to export control).

Effectuer toutes les tâches requises (études techniques, validation d'outil et d'équipement) afin de s'assurer d'être en mesure d'effectuer l'entretien de nouvelles composantes électriques / électroniques d'un moteur d'avion. Assister le département d'ingénierie dans le soutien technique, le développement de réparation et la gestion de projets.

Description: *French follows*

English Title: New Engine Component Introduction by Accessories Service Engineering

In the objective of introducing new components (engine accessories) and improve actual shop capacity, the student will work in relation with Accessories Services Engineering department.

The following tasks are to be performed:

- Engineering analysis: extracting engineering data from approved documentation (maintenance manual, etc...) to identify key technical requirements. Creating certification and test procedures on required components (engine accessories) from extracted data and requirements.
- Gap analysis from actual shop capability, evaluate production needs to perform in-house repairs and overhaul (i.e. lack of testing equipment, tools, fixtures, training, detail spare parts, etc...).
- Carry out validation tests on test rigs with experienced technicians and engineering, which offer engineering inquiries, investigations and shop support experience.

Titre français: Support technique, gestion de projets et étude de faisabilité de nouvelles composantes pour les composantes électriques / électroniques d'un moteur d'avion

Description:

Dans le but de compléter l'étude de faisabilité des nouvelles composantes électriques et électroniques, l'étudiant travaillera en étroite collaboration avec le département d'ingénierie du service des accessoires.

Un accessoires électrique peut être un harnais électrique, des capteurs de pression/ température/ vitesse et des composantes électroniques peuvent être un Electronic Engine Control (ordinateur qui contrôle le fonctionnement du moteur), Torque Signal Condition (ordinateur qui contrôle le couple du moteur) et Autofbeater Units (ordinateur qui contrôle le pas de l'hélice)

Les tâches suivantes devront être effectuées :

- Analyse technique : collecte des données d'ingénierie (débit, pression, voltage, ampérage, résistance, etc ...) à partir de la documentation approuvée (manuels de maintenance, etc ...) afin d'identifier les principales exigences techniques. Création de procédures de test en fonction des données recueillies.
- Identifier les écarts entre les données techniques spécifiées dans la documentation approuvée et la capacité actuelle de l'usine. C'est-à-dire, d'équipement de test, d'outils, de produits chimiques, formation, pièces de rechange, etc...)
- Réaliser des tests de validation sur les composantes sur bancs d'essais avec des techniciens et des ingénieurs expérimentés.
- Supporter, améliorer et mettre-à-jour des équipements de tests.
- Effectuer des investigations sur des composantes électriques et électroniques afin de déterminer la cause d'un mauvais fonctionnement.
- Gestion de projet avec l'assistance des techniciens de l'usine
- Elaborer des méthodes de réparation de composantes, incluant tous les tests de développements (reverse engineering, analyse des matériaux, analyse dimensionnelle, etc.
- Répondre aux requêtes techniques (question technique de l'usine).

Le stage aura lieu à l'usine 5 de Pratt & Whitney Canada situé sur le site de l'aéroport de St-Hubert.

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	Provide short monthly project reports and a final report describing project proceedings and results obtained, as well as the complete process mapped and the progress of each accessory monitored through the Repair database. Deliverables will be monitored through this database with departmental objective. Repairs are considered completed when the engineering instruction is substantiated, approved and issued.
Benefit:	This project has a direct impact in P&WC margin and/or customer operating cost and will be part of the plant 5 (accessories) engineering department roadmap.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office Suite (Excel/Word/Access), SAP
Pre-requisite:	Undergrad Student in Electrical Engineering Person with leadership and team player skills, autonomous, motivated and inquisitive. While Internship is set in a predominantly French environment, acceptable level of English is required since all the technical document is written in English. Internship at Pratt & Whitney Canada plant 5 (St-Hubert)

Étudiant de premier cycle en génie électrique ou GPA avec leadership, autonome, esprit d'équipe, motivé et curieux.

Bien que le stage sera dans un environnement principalement francophone; un niveau acceptable d'anglais fonctionnel est requis (oral et écrit)

Contact Name: Éric D'Amour

Location: Saint-Hubert

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Project Title:	Streamline the Process for the Preparation of the Inventory Optimization by Engine Family Mainly
Objective:	<p>You will have to work with the Sales, Inventory and Operations Planning (SIOP) team to streamline a process of sharing performance indicator between Accenture and our Department.</p> <p>Vous allez travailler avec l'équipe d'opération de planifications Vente et inventaire (SIOP) à fin de supporté notre groupe en Inde Accenture pour la mise à jour mensuel d'un modèle d'optimisation d'inventaire. Cela en standardisant le data et la méthode de transfert nécessaire pour crée les tableaux de bord.</p>
Description:	<p><i>French follows</i></p> <p>English title: Streamline the Process for the Preparation of the Inventory Optimization by Engine Family Mainly for the New Line of the Auxiliary Power Unit Dashboard</p> <p>The Project will be achieved through in-depth understanding of the mechanics of the model with our third party partner (Accenture India two different groups). One that creates the raw data and one that analyzes it to make recommendations on planning parameters. The selected candidate will help the team to create the process that help to generate those dashboards.</p> <p>The Student will have to manage documents in SharePoint, PWC's system for document sharing and tools like MsAccess Database to extract the data needed.</p> <p>French title: Optimiser la procédure de transfère du data pour le tableau de bord de l'inventaire par model de moteur et plus spécifiquement pour la nouvelle ligne des moteurs auxiliaires</p> <p>Ceci sera fait à travers la compréhension en profondeur de la mécanique du model avec nos partenaires Accenture en Inde et notre groupe. Vous allez aider à produire les rapports nécessaires pour la production des tableaux de bord sur le suivis des lignes moteurs et la performance de notre l'inventaire.</p> <p>L'étudiant devra utiliser notre system de gestion de documents SharePoint et des outils comme MsAccess database pour extraire les données nécessaires.</p>
<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>	
Deliverables:	Successful review of planning parameters and reduction in inventory for a selected engine program like the APU.
Benefit:	This will help the SIOP group to increase the service level to the assembly line and to the aftermarket while reducing/minimizing inventory by using this tool IPOT, jointly developed by PWC and Accenture and the new

dashboard.

Cela va aider SIOP d'augmenter le niveau de service à la ligne de montage et au service après-vente en réduisant l'inventaire avec l'outil IPOT et le nouveau tableau de bord.

Schedule:	Starting Date: 24 August 2015	Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours	
	Full-Time	
Software:	Microsoft Office including SharePoint, Excel (Pivot, macro and VB), PowerPoint, MSAccess 2010, Visio and knowledge of ERP systems.	
Pre-requisite:	A minimum of 60 credits done. Undergraduate, Master or PhD Field of Study: Computer or industrial Engineering or in an Operations Management field, Speak read and write French and English. Autonomous require a minimum of supervision. Parle, lit et écrit en Français et en Anglais. Autonome et avec de l'initiative, Requier un minimum de supervision.	
Contact Name:	Marc Lajoie	
Location:	Longueuil	

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Project Title: ECN Quality Database and Investigation Support Project ****UNIQUE OPPORTUNITY****

Objective: Help implement the improved ENOVIA PLM Quality Database including supporting the transition from the current database and developing Excel/Visual Basic tools. Help to resolve engine accessory problems.

Description: **** Unique opportunity to find out a big company's culture and play a key role on 2 projects in 2 departments (see pre-requisite section for more info).**

Engine accessories are components such as fuel controls, electronic controls, harnesses, temperature or pressure sensors, bleed valves and fuel heaters. They are integrated into a system that controls the performance of the engine and provides the pilot with information about the engine. If these components do not function well, they need detailed analysis to establish root cause and develop permanent corrective action. This department is engaged with suppliers to investigate and correct problems with these components.

Project:

A wide range of tasks must be done to monitor accessory problems and resolve them. This project will involve the student in a number of tasks such as:

- 1) Maintaining and improving the tools that enable the department to create and analyses Quality data as well as reducing Quality professional workload by performing several types of data manipulation. This would include helping develop, implement and test requirements for a major upgrade to our primary database for problem data: PLM (Enovia).
- 2) Active support of investigations (e.g. participation in investigation meetings, documenting investigation tasks and plotting and analysis of data).

There will be training sessions on engine components.

The student will need to interact with a number of people to fully understand the processes and help implement changes to them. Engineering knowledge is required to understand the technical elements of investigation work.

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	1) Maintenance of key Enovia tasks until PLM becomes active. Successful integration of ENOVIA PLM Database into the normal daily workflow. Successful support of pre-transition ENOVIA data record management. 2) Successful upgrade of Excel/visual basic tools related to manipulation of ENOVIA database data. 3) Quality investigation engineering data analysis and reports 4) Short monthly project reports and a final report describing project proceedings and results obtained.
Benefit:	Help to provide a new improved ENOVIA PLM Database which will reduce QE/QS workload and provide additional much needed data. Creation of data manipulatoin tools and helping with investigation work that will relieve QE and Qs of significant workload burden while helping the student understand P&WC products and investigation techniques. This could also contribute significantly to the improvement of our engine accessories quality and improve our customers experience of our engines.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	250 hours with potential extention of 100 hours Full-Time
Software:	Visual Basic and several databases - Enovia, SAP, Documentum, Sharepoint and Business Warehouse.
Pre-requisite:	Minimum 1 year completed in an undergraduate Engineering program. Programming classes or experience - ideally some exposure to Visual Basic in EXCEL. Good knowledge of French and English required. Mechanical and Aerospace engineering are preferred though other engineering or computer science fields would be considered. *** The student will also work half-time on project entitled "SQA Business Process Management" (#1248) for a total of 500 hours (i.e. equivalent to regular full-time position).
Contact Name:	Nigel Dove
Location:	Longueuil

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Project Title: Supplier Quality Assurance (SQA) Business Process Improvement **** UNIQUE OPPORTUNITY ****

Objective:

- Improve P&WC SQA business processes and ensure continuance compliance.
- Develop new and enhance existing data tracking and data analysis tools.
- Liaise with P&WC external service provider for deliverable control.

Description: **** Unique opportunity to find out a big company's culture and play a key role on 2 projects in 2 departments (see pre-requisite section for more info).**

The following tasks are to be performed:

1. Audit Plan Improvement and maintenance: Improve and automatize audit progress tracking tool to ease data input and reporting capability - This task requires knowledge of Excel forms, pivot tables and VBA. Project can afford some level of learning curve on VBA.
2. Corrective Action Request (CAR) monthly reporting - CARs produced by auditors in an ongoing basis which trigger supplier actions - The task consists in improving and error proofing the data input tool for auditors and link to report writing in an automatic fashion (same IT abilities as above are required) and developing the right scorecard for the activity with guidance from Supervisor.
3. Consolidate New Supplier Development activities and develop an automated tool to capture and track the progress for developing and approving new suppliers using Gantt charts. This task requires knowledge of Excel forms, VBA and Microsoft Visio and tenacity to obtain up to date information.
4. Third-party audit preparation and report triage in the context of a new scheme of outsourcing of quality audits. Interface in a regular basis with a P&WC external audit service provider to control deliverable completion status and associated action tracker. This requires analytical thinking and an immersion in quality systems, notably AS9100C which is the main Aerospace standard (ISO-9000 based), as well as in key statistical and analytical tools (e.g.: industry standard SPC, MSA and FMEA). Key is to be at ease with call conferencing, remote team work and conducting follow-up activities.
5. Develop Standard Work for department to complement business processes by using VSM techniques to identify potential waste and focus on Value added activities. This requires knowledge of lean tools. The project can afford some level of learning curve on lean tools.

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	<ol style="list-style-type: none"> 1. Improve the existing audit plan tracker, capable of producing the necessary information for managing the auditing activity and producing the necessary KPI for ongoing management reporting. 2. Fix and improve VBA code on the existing Corrective Action Request (CAR) tracker file for collaborative work with field agents and to produce the necessary activity reporting. 3. Based on the audit plan, develop a similar tool for New Supplier Development Plan, capable of producing the necessary information for managing the NSD activities and outputting the necessary KPI for ongoing management reporting. 4. Lead discussions in a regular basis with P&WC's third-party audit service provider and subsequently update information on two files to capture program status health. 5. Review existing Business processes and develop standard work to standardize work and ensure efficiency and productivity of individuals within department 	
Benefit:	<p>Provide better tools to improve efficiency in department delivery completion. Eliminate waste by identifying Value Added activities and outsourcing administrative tasks.</p> <p>Allow department to better anticipate resource needs, increasing the planning horizon.</p>	
Schedule:	Starting Date: 24 August 2015	Ending Date: 23 December 2015
Number Hours:	250 hours with potential extension of 100 hours	
	Full-Time	
Software:	<p>MS Office suite intermediate/advanced. Word: be able to work collaboratively with change tracking tool. Mail merge. Visio: Creating and maintaining Gantt Charts; Excel: comfortable with VBA coding, testing and revision. At ease with creating and exploiting data through pivot tables and charts.</p>	
Pre-requisite:	<p>Minimum 1 year completed in an undergraduate Engineering program. Programming classes or experience - ideally some exposure to Visual Basic in EXCEL. Good knowledge of French and English required.</p> <p>Mechanical and Aerospace engineering are preferred though other engineering or computer science fields would be considered.</p> <p>***</p> <p>The student will also work half-time on project entitled "ECN Quality Database & Investigation Support" (#1249) for a total of 500 hours (i.e. equivalent to regular full-time position).</p>	
Contact Name:	Rodrigo Moavro	
Location:	Longueuil	

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NOTICE - EXPORT CONTROL COMPLIANCE
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Project Title: Process Improvement & Quality System Support/Amélioration des processus et support du système de qualité

Objective: *French follows*
-Participate to achieve ACE gold certification in 2015 by applying the new ACE protocol version 12.2
-Help to Implement management screen inside the new crib merge together to optimize the flow and increase the OTD to intelligent cells.
-Work to optimize logistics service across all activities of logistic center (receiving, inspection and shipping) and participate with campus defining the new role of logistics in the intelligent cells versus the cell design concept.
-Help to organize all folders with the new structure of sharepoint and work to move everything from documentum and vroom to sharepoint plateforme.

- Soutenir le département pour corriger tous les « gaps » après l'évaluation 2014;
- Aider à améliorer le processus de pique (picking); le but étant d'optimiser les opérations actuelles en identifiant le chemin de pique et optimiser la productivité;
- Créer un KPI pour aider le superviseur à mesurer la productivité;
- Participer à l'accréditation du site ACE Or (Programme d'Amélioration Continue pour l'Excellence) pour 2014-2015 en appliquant les principes du nouveau protocole ACE version 12.2;
- Mettre en place un écran de gestion des cribs afin d'optimiser le flux and augmenter le temps de livraison au cellule intelligente;
- Travailler afin d'optimiser le service de Logistique à travers toutes les activités du centre Logistique (réception, inspection et expédition) et participer avec le campus à définir le nouveau rôle de la logistique des cellules intelligentes versus le concept cellulaire;
- Aider à organiser la structure des fichiers du centre Logistique avec la nouvelle plateforme sharepoint et travaille pour bouger et classer tous les documents de l'ancienne structure sous la nouvelle afin d'être conforme aux règles d'exportations.

Description: *French follows*

The project will take place in the Department of Supply Chain at Pratt & Whitney Canada, a world leader in the design, manufacture and service of aircraft engines powering business aircraft, general aviation aircraft the regional aircraft and helicopters. Aerospace, a major component of Quebec's industrial base is the third manufacturing industry in Quebec.

Logistics center is a team of 200 employees with 3 keys processes.
The Logistics Center has the following main tasks:

Quality:

- Purchased parts inspection
- Re-inspection Orders for the Assembly line.
- NDT inspection
- Patch Test inspection (CPW152)
- Measuring Center for experimental and airfoil parts

Receiving:

- Handling parts within the Campus 1
- Product & Non-product reception

Shipping:

- Responsible of inter-plant transportation.
- Shipping parts within the Campus 1, AOG & OEM sales

Unique opportunity to perfect quickly your knowledge of the aerospace industry and the world of big companies: the selected student will work 50% of his/her time on this project and the other 50% on the project entitled "Réduction des coûts de logistique (transport, entreposage & douane)". A project cannot be dissociated from the second (no part-time).

French description

Le projet est à pourvoir au sein du département de la chaîne d'approvisionnement de Pratt & Whitney Canada, chef de file mondial dans la conception, fabrication et l'entretien des moteurs équipant les avions d'affaires, les appareils de l'aviation générale, les avions de transport régional et les hélicoptères. L'aérospatiale, composante majeure du tissu industriel québécois est la 3e industrie manufacturière au Québec.

Le centre Logistique est une équipe de 200 employées avec 3 processus clés :

Qualité:

- Inspection des pièces achetées
- Inspection des retours du centre moteur.
- Inspection essai non destructif
- Inspection nettoyage Patch Test (CPW152)
- Centre de mesure pour expérimental et pièce de profilé aérodynamique

Réception:

- Manipulation des pièces à travers le campus 1
- Réception des pièces (Produit & non-produit)

Expédition:

- Responsable des transports inter-usine.
- Expédition des pièces du Campus 1, AOG & OEM

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:

Help logistics center to meet ACE assessment requirements for 2015 -2016 gold certification and implement ACE tools to improve logistics processes such as Measuring center, inspections, shipping, receiving, etc.

Aider le centre logistique à rencontrer les exigences d'évaluation 2015-2016 pour maintenir sa certification gold.

Mettre en place les outils ACE afin d'améliorer les processus logistiques tels que le centre de mesure, les inspections, l'expédition, la réception, etc.

Benefit: General processes improvement, waste elimination, help supervisor to improve their tasks, improve quality processes, and apply basic ACE tools that will help logistics center to achieve gold assessment.

Amélioration générale des processus, élimination des déchets et support aux membres de l'équipe aideront le centre logistique à atteindre la certification ACE or.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 480 hours with potential extension of 20 hours

Full-Time

Software: Software(s)/Logiciels: SAP (basic knowledge), Microsoft Office, Visio.

Pre-requisite: - Undergraduate student, Process Improvement experience and logistic orientations are considered an asset to this position.
- Mechanical Engineering, Computer Engineering, Aerospace Engineering, Industrial Engineering Electrical Engineering, Operations, Management etc.

Étudiant en cours d'étude.

Expérience en amélioration continue et orientation logistique seront pris en considération pour cette position.

Contact Name: Milton Rodriguez

Location: Longueuil

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Project Title:	REACH Compliance Project /Projet Conformité REACH
Objective:	The main objective of this internship is to support the REACH Project Team in its activities. This project involves resources from many different organizations inside the company such as Engineering, Supply Management, International Operations, Marketing, Quality, Service centers and Material Lab. The student will be part of the core team that coordinates the activities and the communications through the entire company. It will be a good opportunity for the student to improve his project management skills in a very large project with high visibility.
Description:	<p>REACH is a law (2007) enacted by the European Commission and managed by the European Chemical Agency (ECHA). REACH is the acronym for Registration, Evaluation, Authorization and Restriction of Chemicals. This regulation has been adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals.</p> <p>In a nutshell, 161 “substances of very high concerns (SVHC)” have been identified for which any producer has the obligation to declare to their customers in European Union. Also, 31 of the SVHC will be banned on the EU territory after a defined sunset date. To be compliant to this regulation and make sure that the supply chain won’t be interrupted due to banned substances after their sunset date, P&WC has to:</p> <ul style="list-style-type: none">• Conduct analysis to understand the quantity of these SVHC in all of his products;• Survey all of its suppliers world-wide to understand the usage of the banned substances and manage the actions plan to replace these substances or to apply for an authorization before the sunset date;• Implement a new system that will manage the duty of communication to customers when products are shipped to the European Union. <p>All of these activities have been driven in parallel and the issues met by a sub-team may have a major impact on the others initiatives. The student will have the responsibilities to gather the information about the progress and the issues identified from the different sub-teams around the world, to maintain the main project plan and understand the impact on the critical path. The documents that will be created or handled by the student won’t have any technical data classified higher than 9E991. All of these documents will be stored on the REACH Project Site classified as a Low Tech site.</p>

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:

Benefit:

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Full-Time

Software: MS Excel, MS Powerpoint, MS Outlook, Sharepoint, SAP

Pre-requisite: Undergrad in Operations, Management, Logistics, Industrial or Mechanical Engineering

Contact Name: Valerie Bilodeau

Location:

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Pratt & Whitney Canada

Une société de United Technologies / A United Technologies Company

Project Title:	Process Improvement Coordinator - Quality Continuous Improvement (PLM (eQN, eQUEST), ITC, UPPAP, CoPQ)
Objective:	Implementation of the Export Control requirement through the Supply Management Quality processes. La mise en œuvre du contrôle des exportations à travers les processus d'approvisionnement de la gestion de la qualité.
Description:	<i>French follows</i> Quality Management Systems are used across P&W to track and exchange information between suppliers and customers. This position is dedicated to support deployment activities relative to export control to the entire supply chain. These include: training, coaching, answering questions, addressing gaps, preparing reports/documentation, system testing, pilot projects and being sure that the process is always inline with the expectations and generate a great ROI (Return on Investment). Candidate must be bilingual, demonstrate initiative and have a good working knowledge of Excel. Le système qualité de P&WC est utilisé afin d'échanger de l'information entre les fournisseurs et clients. Le rôle du candidat sera d'assurer l'intégrité de la réglementation de l'export control tout au long des activités complétées par le groupe « Supply Management Quality ». A cette fin, le candidat aura à cerner ces activités : formation, coaching, répondre aux questions, combler les lacunes, la préparation de rapports / documentation, les tests de système, de projets pilotes et d'être sûr que le processus est toujours en ligne avec les attentes et générer un grand ROI (retour sur investissement). Le candidat doit être bilingue, faire preuve d'initiative et avoir une bonne connaissance de travail d'Excel.
	Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.
Deliverables:	To have a good working knowledge of Quality Management Systems and to ensure that both are deployed effectively in Supply Management Quality. Being sure that all suppliers and internal employees are knowledgeable with export control requirement. Acquérir une bonne connaissance du fonctionnement des systèmes de gestion de la qualité afin de

s'assurer qu'ils sont déployés efficacement au sein du département. S'assurer également que l'ensemble des fournisseurs et des membres de l'équipe interne sont familiers avec les exigences relatifs aux marchandises contrôlées.

Benefit: Clearly understand the export control requirement and their applicability into the Supply Management Quality.

Le projet permettra de mieux comprendre les requis aux contrôles à l'exportation, ainsi que leur application au groupe de Supply Management Quality.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Full-Time

Software:

- Microsoft Office Suite,
- Excel/VBA
- SAP

Pre-requisite: Undergraduate Student comfortable in both, English and French.
Good knowledge in Excel is an asset.

Le candidat doit être bilingue, faire preuve d'initiative et avoir une bonne connaissance d'Excel.

Contact Name: Francis Warnant

Location: Longueuil

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Project Title: Cost Savings Strategy and Operational Improvement/Stratégie d'économie et amélioration opérationnelle

Objective: *French follows*

- Support cost savings initiative for 2015.
- Lead key initiatives to improve department service level and productivity.
- Lead key activities to resolve gap identified from project compass north (Export control).
- Work in collaboration with Accenture ops team to support operating improvement opportunities.
- Maintain GGPS portal (Update portal with cookbooks, MMP's, new Org Charts).

- Appuyer l'initiative d'économies de coûts.
- Mener des initiatives clés afin d'améliorer le niveau de service et la productivité du service.
- Mener des activités clés pour combler les lacunes identifiées dans le cadre du projet Compass North (contrôle des exportations).
- Travailler en collaboration avec l'équipe des opérations d'Accenture pour appuyer les possibilités d'amélioration de l'exploitation.
- Maintenir le portail des SGAG (mettre le portail à jour avec des directives, MMP, nouveaux organigrammes).

Description: *French follows*

General procurement has identified, through a detailed action plan, multiple improvements opportunities: the student will be mandated to lead from beginning to end specific mandates within the action plan to help support the global initiative. This role requires strong communication skills and the ability to be independent.

The student will Lead key activities to resolve gap identified from project compass north (Export control). The general procurement team is supported under a global work share model and we have to work in close collaboration with our operation team. The student will be required to work in collaboration with the global work share support team to lead operating improvement project.

The general procurement team uses a customer portal for communication with internal clients and the company needs to maintain and keep up to date the information on the portal. Student will be required to maintain and update the information.

The student will provide assistance to the general procurement team members on multiple cost saving initiatives. Including the preparation of the monthly savings reports.

L'étudiant fournira de l'assistance aux membres de l'équipe du service Approvisionnement général pour plusieurs initiatives de réduction des coûts, y compris la préparation des rapports mensuels sur les économies de coûts.

Le service Approvisionnement général a identifié, grâce à un plan d'action détaillé, de multiples possibilités d'améliorations : l'étudiant sera mandaté pour mener, du début à la fin, des mandats spécifiques respectant le plan d'action pour soutenir l'initiative globale. Ce rôle exige de solides compétences en communication et la capacité à être indépendant.

L'étudiant mènera des activités clés pour combler les lacunes identifiées dans le cadre du projet Compass North (contrôle des exportations).

L'équipe du service Approvisionnement général est soutenue par un modèle de partage mondial du travail, et nous devons travailler en étroite collaboration avec notre équipe de l'Exploitation. L'étudiant sera appelé à travailler en collaboration avec l'équipe du Partage mondial du travail pour mener le projet d'amélioration de l'exploitation.

L'équipe du service Approvisionnement général utilise un portail des clients pour la communication avec les clients internes, et nous avons besoin de tenir à jour les renseignements du portail. L'étudiant devra tenir à jour ces renseignements.

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	Reports and documentation
Benefit:	The Project will: <ul style="list-style-type: none">- Help the general procurement organisation to improve the department Service level and productivity to maintain ACE Gold standard.- Support the maintenance of optimal customer satisfaction.- Assist the team in meeting cost saving target for the One company UTC initiative.- Support the resolution of gaps to maintain compliance with policies including compass north initiative.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	MS-Office
Pre-requisite:	Bilingual candidate French-English/ Autonomous and team player candidate *** Étudiant bilingue français-anglais/Autonomie et esprit d'équipe
Contact Name:	Mathieu Moreau
Location:	Longueuil

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Project Title: Supplier Field Performance Tracking Tool Development ****OPEN TO PART-TIME****

Objective: Develop a data extraction and reporting tool for supplier performance evaluation.

Description: From our Field reporting dataset, the project owner will develop macros to download the applicable data. From this data, screening selection menu will be developed and used for reporting purposes. From an enovia database into excel platform, sharepoint accessed tools.

- Mandate includes:
- Program detail timeline
 - Major milestone development
 - Key screening parameters identification
 - Key reports necessary
 - Identify modules necessary to produce required performance tracker
 - Develop macros

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables: Excel type database with developed macros.

Benefit: In order to simplify and improve its efficiency to identify engineering improvement opportunity, P&WC needs to enhance its tracking tools and develop methods to facilitate day to day supplier performance tracking. This tool will help identify design opportunities, product improvements; it will also support the data mining activities to report to the authorities and our customers.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Open to either

Software: Excel, Sharepoint, ENOVIA, CRM, SAP

Pre-requisite: Undergraduate student in computer Application, Data Management application development (not first year)

Contact Name: Elizabeth Powell

Location: Longueuil

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Project Title: Growth Readiness and NPI (New Product Introduction)/ Projet de gestion de la croissance

Objective: *French follows*

- Supporting and Planning of growth readiness activities and supporting NPI Lead.
- Support à la planification de la gestion de la croissance auprès des fournisseurs.

Description: *French follows*

The project will take place in the Department of Supply Chain at Pratt & Whitney Canada, a world leader in the design, manufacture and service of aircraft engines powering business aircraft, general aviation aircraft the regional aircraft and helicopters. Aerospace, a major component of Quebec's industrial base is the third manufacturing industry in Quebec.

Main tasks:

- Working under the leadership of the BU executive director, the candidate will perform analysis and follow up on the suppliers' growth readiness plans with the respective account specialists and account managers.
- Perform a follow up on capacity analysis and risks management actions. Get involved and support the
- Value Stream Managers (VSM) in the execution of several projects.

Le projet est à pourvoir au sein du département de la chaîne d'approvisionnement de Pratt & Whitney Canada, chef de file mondial dans la conception, fabrication et l'entretien des moteurs équipant les avions d'affaires, les appareils de l'aviation générale, les avions de transport régional et les hélicoptères. L'aérospatiale, composante majeure du tissu industriel québécois est la 3e industrie manufacturière au Québec.

Les principales tâches consisteront à:

- Travailler sous la supervision du directeur exécutif de l'unité d'affaire, le candidat effectuera l'analyse et les suivis des plans de croissance des fournisseurs en collaboration avec les gestionnaires et les spécialistes de comptes.
- Effectuer un suivi des activités d'analyse de capacité et de la gestion des risques.
- Être impliqué et supporter les directeurs de chaîne de valeur d'approvisionnement dans l'exécution de plusieurs projets.

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	<p>The deliverable is to provide weekly and monthly reports as well as daily support to the Supply Management team. *** Des rapports hebdomadaires et mensuels seront requis dans le cadre de ce projet.</p>
Benefit:	<p>The benefits shall be to monitor progress on critical sourcing projects and understand capacity availability in the supply chain to position P&WC to be ready for the up coming growth in the aerospace market. *** Effectuer le suivi de la progression des projets de repositionnement stratégiques des pièces et de connaître la capacité disponible chez nos fournisseurs afin d'être en mesure de combler nos besoins d'approvisionnement grandissants face à la demande croissante du marché.</p>
Schedule:	<p>Starting Date: 24 August 2015 Ending Date: 18 December 2015</p>
Number Hours:	<p>500 hours with potential extension of 200 hours Full-Time</p>
Software:	<p>The candidate will work with the internal SAP system along with the Microsoft environment software. *** Le candidat aura à travailler avec le système SAP et avec la gamme des logiciels de bureau Microsoft</p>
Pre-requisite:	<p>Undergraduate Student in following programs: Operations, Administration, Purchasing Management or related fields</p>
Contact Name:	<p>Mary Zupan</p>
Location:	<p>Longueuil</p>

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Project Title: "Machining Big Play": Machining Supplier's Transitions (Cost Reduction Project)

Objective: Support the Technical Project Management team on the UTC initiative called "Machining Big Play", comprised of multiple projects related to machined parts. The participant input will be required from the part and supplier selection to the transition execution between the old and the new source.

Description:

- Classify parts based on geometry, materials and manufacturing processes; organize drawings by family
- Create technical sheets using Visual Basic (VBA), which automates extraction from P&WC databases
- Participate into engineering internal reviews on work estimates and drawing changes requests
- Support project coordinators in establishing drawings changes which could affect development timeline
- Regular working sessions with internal senior manufacturing experts on the ongoing projects
- Perform technical & data integrity validation to recommend manufacturing transition part leaders
- Support the maintenance of the P&WC Parts Catalogue
- Support Request For Quote (RFQ); participate into supplier manufacturing plan proposal reviews
- Possibility of supporting process improvement and lean manufacturing sessions lead by P&WC experts

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Deliverables: Technical sheets and technical analysis for new project phases;
Part leaders list per package; part family binders
List of drawings change affecting ongoing project
Multiple ad hoc requests, based on team need, as well as student aptitudes and interests
Standard work, cookbooks and lessons learned

Benefit: The UTC initiative called "Machining Big Play" main focus is to provide substantial cost reductions through innovative manufacturing & business processes. It is one of P&WC's top Supply Management project and is directly related to the 5 year financial plan.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours
Full-Time

Software:	Microsoft Office Suite (Excel, Word, Power Point, Outlook), Visual Basic, SAP, P&WC specific applications (drawing viewer, design job, parts catalogue)
Pre-requisite:	<p>Level of Education: Undergrad student in Engineering *****</p> <p>The Project will provide a unique opportunity to work with experts of over 20 years of experience in lean manufacturing, enabling teamwork with engineering specialists and providing insights on engineering requirements application within operations.</p> <p>The team is mainly comprised of french speaking people. All documentation is in English; the team is therefore looking for a bilingual student with good technical aptitudes for reading and understanding P&WC drawings and specifications. *****</p> <p>The job is: Full Time for the above specified period; Part Time will only be considered as a second choice.</p>
Contact Name:	Sonia Creo
Location:	Longueuil

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Project Title:	Materials Research Strategy Definition		
Objective:	Developing and populating a more robust materials strategy tracking system than the current one. The new system should be able to gather relevant information more quickly and link background material to the presentation more easily.		
Description:	<ul style="list-style-type: none">- Populate a Documentum "virtual room" or a SharePoint site for capturing incoming supplier information. This could be in the Materials and Process Engineering Repository (MAPER), which is already set up for such uploads and would only require a minor change to handle unverified supplier data, or somewhere else. This could also include scanning of the existing information in the Materials Engineering paper library, depending on time.- Update the PowerPoint presentation with all the latest materials, coatings, and processes that we want to keep track of.- Fix the Excel spreadsheet that contains the calculations behind the PowerPoint presentation and improve the mechanism for updating one from the other.		
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>		
Deliverables:	Updated PowerPoint and Excel files as described above. Brief report in Word format to document what was done and final state of project.		
Benefit:	Materials, coatings and processes are the focus of a great deal of ongoing research by many different suppliers and laboratories. In order to stay abreast of the state of the art, a mechanism is required to gather, sort and maintain information on the new developments so that a crucial opportunity to incorporate new technology into current engine programs is not missed.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	MS Office (PowerPoint, Excel, Word), Documentum, Acrobat/Nuance (PDF handling for scanning, OCR, etc)		
Pre-requisite:	Undergrad in Engineering, with substantial Materials knowledge		
Contact Name:	Joel Larose		

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Project Title:	Technology Development of Segmented Radial Contact Seals		
Objective:	Support technology development testing for segmented radial contact seals		
Description:	The following tasks are to be performed: <ul style="list-style-type: none">- Support rig testing on segmented radial contact seals- Analyze test results and support calibration of models- Define design guidelines based on results		
	<div style="border: 2px solid red; padding: 5px; color: red;">Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</div>		
Deliverables:	Report documenting test results and design guidelines for segmented radial contact seals.		
Benefit:	Help Mechanical Component Center to characterize the performance and durability of segmented radial contact seals, establish desired operating envelope and define design guidelines and best practices.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	600 hours with potential extension of 200 hours		
	Full-Time		
Software:	CATIA, ANSYS Workbench, MATLAB, VBA, Excel, internal software		
Pre-requisite:	Undergraduate student completed at least 3 years or Masters Student in Mechanical Engineering.		
Contact Name:	Alexander Smith		
Location:	Longueuil		

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Project Title:	Collaborative Research Projects Coordination and Technology Management Process Improvement **PART-TIME PROJECT**
Objective:	Assist in the coordination of collaborative research projects and improve P&WC Technology Management Processes.
Description:	<p>Pratt & Whitney Canada (P&WC) has developed best-in-class technology management processes to manage its various R&D projects. Many R&D projects are conducted in collaboration with multiple Canadian universities and aerospace companies.</p> <p>The project includes two main tasks: The first task consists in coordinating collaborative research projects while the second task consists of improving our technology management processes. After conducting a study of the potential areas for improvement, the student will prioritize the opportunities, conduct requirements gathering sessions to properly define the requirements, develop, implement and validate the solutions. Following this, the student will update the process documentation and provide training as required.</p> <p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	Updated and new technology management templates, process documentation and training material
Benefit:	The Project will benefit P&WC since it will maximize the benefits of the overall P&WC R&D investment by improving the research project selection making process and minimizing the amount of effort required to manage the process in order to increase focus on technology development.
Schedule:	Starting Date: 24 August 2015 Ending Date: 29 April 2016
Number Hours:	500 hours with potential extension of 200 hours Part-Time
Software:	The project mainly requires the use of standard Microsoft office tools including Microsoft Access. It might also include some limited VBA macros development.
Pre-requisite:	Undergraduate or graduate student in Mechanical or Aerospace Engineering. Other engineering discipline will be also considered.

Student must have knowledge in programming.

Contact Name: Florent Salako

Location: Longueuil

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Project Title:	Planetary Gear Trains Modelisation		
Objective:	Model and run several planetary geartrains in order to retro analyse contact stress for many PT6s and re-baseline our analysis methodology.		
Description:	The following tasks are to be performed: <ul style="list-style-type: none">• Build finite element models of existing planetary gear trains using specialized gear analysis software (ANSOL's Transmission 3D).• Run those models and report contact stress, subsurface shear stress and bending stress.• Establish a model template to be used for future engines based on lessons learned.• Conduct exploratory analyses on various parameters of the models.		
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Deliverables:	<ul style="list-style-type: none">• Stored models• Reports of results• Model Template (s)		
Benefit:	This work will allow us to better understand PWC's gear reliability in order to establish more precise design guidelines. In addition, it will speed up upcoming designs analyses with the help of the template that should be developed for future planetary gear trains.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	600 hours with potential extension of 240 hours		
	Full-Time		
Software:	<ul style="list-style-type: none">• Transmission 3D• CATIA• MS Office suite		
Pre-requisite:	Undergraduate in Mechanical engineering, preferably with some strength of material and machine elements courses completed.		
Contact Name:	Louis Brillon		

Location: Longueuil

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Project Title: Lower Cost Forging Control ****PART-TIME PROJECT****

Objective: Better understand Specimen fatigue test data and its link to component test data.

Description: Establish correlations between specimen and component testing data by analysis of LCF specimen testing results, tensile mechanical test data and component spin pit data in order to minimize the fatigue tests costs. Additionally, review forging properties to assist in the establishment of the advanced lifing system.

In this Project, the Student will compile and reduce available fatigue and tensile data from specimen and component tests.

The Student will continue to electronically secure test data in P&WC's library, and contribute new ideas to implement a robust process that can be repeated and user-friendly. Data should be secured in a uniform and user-friendly manner.

The position is open to either part-time or full-time

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:

- Accuracy of specimen test data validated;
- Test data classified and documented;
- Test data secured in P&WC library, in a uniform and user-friendly manner;
- Final report covering work stated above and all the results obtained.

Benefit:

- Reduce forging validation testing;
- Accurate estimation of component fatigue life.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 180 hours with potential extension of 20 hours

Part-Time

Software: MS Office, VBA, Catia, Ansys, MinTab, Super Smith

Pre-requisite: The researcher's level of education should be in undergrad, 3rd or 4th year Mechanical or Aeronautical degree, or Master's student. Basic knowledge in FE stress analysis and tensile testing would be an asset.

Contact Name: André Chevrefils

Location: Longueuil

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Project Title: Engine Trend Monitoring & Maintenance Anticipation Methods (PW500 / PW600)

Objective:
1- Establish method of monitoring engine health through data collection and analysis of oil samples to anticipate engine hardware and system issues in order to implement appropriate maintenance actions.
2- Manage the logistics of PW500/PW600 engine campaign activities.

Description:
PW600 Engine COAT (Complete Oil Analysis Technology) Program
1- Coordinate all PW600 engines activities related to COAT program.
2- Assist the material lab in developing the advance oil testing method and establish baseline for the PW600 engine family.
3- Prepare documents to communicate and implement new maintenance measures.
4- Define maintenance work scope in relation to the findings and targeted engines.
5- Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OHM) where required to implement any permanent maintenance actions.

PW500/PW600 Engine Logistics Management

- 1- Develop / Update logistic plan for PW500/ PW600 Campaign Programs.
- 2- Coordinate logistics activities between various organizations within P&WC, Suppliers and Customers.
- 3- Develop a process to monitor program shop performance and field demand.
- 4- Prepare monthly status update of campaign programs.

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Deliverables:
1 - Write summary report of trend monitoring findings and advance oil sampling test baseline and findings that lead to specific maintenance actions.
2 - Prepare communication documents a) Service Bulletin (SB) to define maintenance work scope b) Special Information Letter (SIL) and Special Instruction (SI) to communicate and implement specific maintenance actions.
3 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.

Benefit: Avoid In Flight Shutdowns (IFSD), avoid Basic Unschedule Removals (BUR) and avoid extensive repair scopes.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 600 hours with potential extension of 200 hours

Full-Time

Software: Microsoft Office, Excel, CRM, JView

Pre-requisite: Knowledge of gas turbine engines, eager to learn and develop new maintenance anticipation methods

Contact Name: Kevin Lewis

Location: Longueuil

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Project Title:	Engine Diagnostic and Health Management Software Tools **OPEN TO PART-TIME**
Objective:	Definition and validation of Ground-Based software tools for FAST recorder.
Description:	<p>P&WC (Pratt & Whitney Canada) engines equipped with on-board recorder record and transmit engine full flight data after each flight. These data must be analyzed by converting engine full flight data into engine diagnostics and engine performance monitoring data use for determination of Engine Diagnostic and Health Management analysis and applicable engine maintenance tasks.</p> <p>The tasks include:</p> <ul style="list-style-type: none">- Participation in the definition, development, validation of ground-based software;- Analyze of software needs and definition of software requirements;- Coordination with software suppliers;- Participation into validation of the software.
	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	Provide validated ground-based software for new FAST installation.
Benefit:	This Project will enable P&WC to develop Ground-Based software products that receive and process diagnostic and health management data recorded by on-board monitoring and offloaded wirelessly after every flight . The on-board recorder FAST will then be able to be installed on new aircraft and the ground processing software is specific for each new aircraft model. Ability to deploy FAST box on new installation
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours
	Open to either
Software:	Microsoft Office, Beyond Compare
Pre-requisite:	3rd or 4th year Undergraduate Student in Mechanical or Electrical Engineering

Contact Name: Daniele Berdah

Location: Saint-Hubert

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Project Title:	Support de la stratégie mondiale de transformation
Objective:	Supporter le développement et l'implantation des initiatives de changements dans le cadre de la stratégie de gestion des actifs au sein de Pratt & Whitney Canada Leasing.
Description:	<p>Leader dans l'industrie aérospatiale, Pratt & Whitney Canada Leasing possède le plus grand inventaire disponible de moteurs de location P&WC de toute l'industrie. Ces moteurs sont stratégiquement déployés à travers notre réseau international et cela dans le but de réduire les délais de livraison pour nos client à travers le monde. Nous offrons nos services dans six segments de marché: Aviation d'affaires, Aviation utilitaire, Aviation régionale, Hélicoptères civils, Militaire et service après-marché.</p> <p>Le projet consiste à supporter le développement et l'implantation des initiatives de changements dans le cadre de la stratégie de gestion des actifs au sein de Pratt & Whitney Canada Leasing avec l'objectif d'accroître l'efficacité de l'utilisation de plus 850 moteurs de location.</p> <p>Plus particulièrement, le candidat sélectionner devra:</p> <ul style="list-style-type: none">• Assister les spécialistes fonctionnels dans l'analyse des tendances pour le déploiement stratégique dans la région de l'Asie-Pacifique;• Supporter les initiatives d'amélioration du service de location;• Supporter l'intégration commerciale du groupe auxiliaire de puissance (GAP) au sein de Pratt & Whitney Canada;• Standardiser les indicateurs clés de performances et tableau de bords;• Aligner les parties prenantes clés aux projets;• Aider aux prises de décisions d'affaires. <p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	<ul style="list-style-type: none">- Indicateurs clés de performance pour une gestion efficace des actifs.- Diagrammes de processus fonctionnels- Mettre en place un plan d'actions d'implémentation
Benefit:	Ce projet est essentiel dans l'expansion mondiale du service à la clientèle offert par Pratt & Whitney Canada. Il servira de plateforme d'efficacité opérationnelle et du déploiement de nos actifs. Ce projet sera non seulement une initiative de performance financière mais aussi et surtout offrira à nos clients une amélioration significative au niveau

du service de location.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Open to either

Software: SAP, Excel, Word, PowerPoint, Visio

Pre-requisite: Baccalauréat, Maitrise serait un atout
Ingénierie, Gestion de projets, Administration des affaires, Finances, Stratégie

Contact Name: Antonio Gallo

Location: Longueuil

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Project Title: Spare Parts Services APU (Auxiliary Power Unit) Project

Objective: APU Spare Parts Process transition and improvements.

Description: *English follows*

Le/la candidat(e) devra travailler avec l'équipe des pièces de rechange afin de s'assurer que ces processus, outils informatiques et documents sont prêts dans les domaines de : Prévisions, Données source (pièces et clients) et de l'assurance de livraison.

Après le démarrage, le/la candidat(e) devra travailler avec l'équipe pour s'assurer que tout les processus satisfont les exigences de PWC ainsi que de ces clients. Si besoin est, le/la candidat(e) devra adresser les causes fondamentales et initier des changements aux processus des pièces de rechange.

The candidate will have to work with the Spares Parts team to ensure it's processes, IT tools and documentation are ready to go live in the areas of: Forecasting, Master data (part and customer), customer interactions and Delivery assurance.

After go live , the candidate will have to work with the team to ensure all processes are working to P&WC and customer's expectations. If need be, the candidate will need to drive root cause corrective actions and implement changes to Spare Part processes.

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Deliverables: Documented Improvements to APU Spare parts processes

Benefit: The APU project is bringing new business to PWC (Pratt & Whitney Canada). The spare parts sales on that program are crucial to ensure that this new business is successful in the future. The project's benefits are to ensure we ship to our customers what they ordered in a timely fashion.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extention of 200 hours

Open to either

Software: SAP

Microsoft office

Pre-requisite: Bachelor or Master in Operations, Management

Contact Name: Michel Tourville

Location: Longueuil

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Project Title: PW100-150 Lean Transformation / Cell Design

Objective: The main objectives are to improve control visual, cell design, 5S for pw100-150 cycle 1 to meet 12 days TAT and also 45 days dock to dock.

Description: The following tasks are to be performed:

- Host and take part in meetings (work shop session) with employees to meet mandates objectives;
- Support organizational changes;
- Schedule management plan, as per requirements;
- Follow day-to-day actions and priorities with contractors, buyers, employees, etc;
- Work with all to prevent health and safety incidents in a shop environment.

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Deliverables: Weekly present progression reports to employees & management.

Benefit: Improve TAT, increase business volume, provide customers and employees satisfaction.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours

Full-Time

Software: Microsoft environment, MS project and Viso (an asset).

Pre-requisite: Bachelors or graduate studies in Mechanical Engineering, Operations, or GOP.

Contact Name: Martin Lirette

Location: Saint-Hubert

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Project Title:	Global Sales Competitive Assessment & Pricing Strategy **8 Months**
Objective:	<ul style="list-style-type: none">- Analyze market share for adhoc and contract customers.- Develop methodology and process to success future engine events secured under long term agreement.- Identify gaps and develop strategies to address.- Review current Repair and Overhaul offerings as well as costs and margin analysis.- Review packaging of offers and make recommendations based on competitive forces and market feedback. Work with Global Sales team to understand key trends impacting win/loss results.- Use Customer Relationship Management (CRM) system and align with determined strategy. Make recommendations and help restructure processes to be more efficient with new CRM system and access to information working with overhaul shops. Support opportunity management to maximize likelihood of securing ongoing business.
Description:	<p>Main tasks to be performed:</p> <ul style="list-style-type: none">• Compile and analyze data related to market and securing repair and overhaul contracts.• Redefine and document new/changed procedures. Make recommendations to change product/service offerings and behavior.• Conduct data analysis of win/loss on proposals and quotations.• Revise sales tools as necessary.
Deliverables:	<ul style="list-style-type: none">- Conduct competitive assessment and adapt new opportunity management offerings.- Make recommendations of altered service offerings aligned to market.
Benefit:	Identify gaps and action plans to ensure sufficient market capture from contract customers. Improve competitiveness, win rates and forecasting ability. Create additional efficiencies within the sales team and Customer Service regarding the management of customers and business opportunities. Improve speed of response to customers and better management of customer events. Improve competitiveness and ability to secure additional engine maintenance, repair and overhaul work.
Schedule:	Starting Date: 24 August 2015 Ending Date: 29 April 2016
Number Hours:	1000 hours with potential extention of 400 hours
	Full-Time

Software:	CRM, SFDC, Microsoft suite, Outlook
Pre-requisite:	Undergraduate or Masters level in Business, Engineering or Management
Contact Name:	Marco Dumont
Location:	Saint-Hubert

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Project Title:	Service Engineering Support and Engine Maintenance Optimization		
Objective:	Support to key initiatives in Service Engineering and Direct Maintenance Cost (DMC) optimization.		
Description:	<ul style="list-style-type: none">• Participate in the optimization of our DMC for the Regional Airlines market.• Support the creation of the commercial offering based on the market study. This can be based on the operating environment.• Support the creation of appropriate technical documentation / recommendation. This can include the initial provisioning for a new fleet and additional provisioning for fleet increase.• Provide support to various requests coming from our customer base i.e. the regional airlines.		
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>		
Deliverables:	Identify opportunities to reduce the DMC and work with our Engineering group on product improvements. Support the creation of the content of the instruction for continued airworthiness.		
Benefit:	Enable P&WC to better compete in the Regional Airlines market. The input will also feed in our new engine program i.e. NGRT.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	SAP, Microsoft Office tools, CRM		
Pre-requisite:	Undergraduate Student in Mechanical Engineering or Aerospace Engineering.		
Contact Name:	Vincent St-Pierre		
Location:	Longueuil		

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Project Title:	Pay per Hour (PPH) Program Process and Business IT Development		
Objective:	Help maintain and improve business developed MS Excel and MS Access-based tools. The business relies on customized IT tools and these require continuous improvements to ensure that they meet the evolving business needs.		
Description:	The student will support the PPH team to identify and implement process and business tools improvements based on suggestions or new requirements.		
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Deliverables:	Implement Process and Business Tools improvements. Document methodology used and improvements realized.		
Benefit:	Benefit P&WC as the process and tool improvements will result in increased team productivity.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	Microsoft office (Access, Excel, Word, PowerPoint), MS Query (SQL), SAP		
Pre-requisite:	<ul style="list-style-type: none">• Engineering Student• Advanced Business IT skills		
Contact Name:	Isabelle Smith		
Location:	Longueuil		

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Project Title:	Support Customer Engineering Activities for APU Engines
Objective:	Support customer engineering activities for APU engines, by analyzing past data and defining opportunities of improvement for trouble shooting guide and maintenance of those APUs and by supporting improvement projects.
Description:	Main tasks to be performed: <ul style="list-style-type: none">• Support customer engineering day-to-day activities, analyze CRM cases and participate to trouble shooting;• Analyze data from the field on these engine models, including warranty cost and repair workscope;• Review existing data from shop repairs or shop events, to ensure engine reliability history is properly captured in the P&WC systems;• Work with the customer engineers to identify actions required to correct field issue;• Present you recommendation to the team;• Following Program team decision deploy required actions.
	Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.
Deliverables:	Field data analysis Root cause analysis and proposal of actions Document Change Requests
Benefit:	The project will support troubleshooting activities, reliability improvement as well as cost reduction of PW901, PW980 & APS3200 engine program.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	Standard MS office
Pre-requisite:	Undergraduate, 2nd or 3rd year Student in Mechanical or Aerospace Engineering

Contact Name: Roger Lachance

Location: Longueuil

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Project Title:	Engine Trend Monitoring and Maintenance Anticipation Methods (PW300)
Objective:	Support the customer support program team with the development and implementation of process improvements and data knowledge evolution. This includes liaising Engine Health Monitoring data and Engine Oil Analysis data (COAT) to the service engineering team, as well as developing new methods to pull part durability data and present it so as to be able to identify durability/cost/reliability drivers.
Description:	<ol style="list-style-type: none">1 - Trend monitoring: selection of key parameters associated to health of engine components and system areas.2 - Define maintenance work scope in relation to the findings and targeted engines.3 - Prepare documents to communicate and implement new maintenance measures.4 - Assist the material lab in developing the advance oil testing and establishing the engine family baseline.5 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
	Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.
Deliverables:	<ol style="list-style-type: none">1 - Write summary report of trend monitoring findings and advance oil sampling test baseline and findings that lead to specific maintenance actions.2- Prepare communication documents a) Service Bulletin (SB) to define maintenance work scope b) Special Information Letter (SIL) and Special Instruction (SI) to communicate and implement specific maintenance actions.3 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
Benefit:	Avoid In Flight Shutdowns (IFSD), avoid Basic Unscheduled Removals (BUR) and avoid extensive repair scopes.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	600 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office Excel, CRM, JView

Pre-requisite: Knowledge of gas turbine engines, eager to learn and develop new maintenance anticipation methods.

Contact Name: Serge Corriveau

Location: Longueuil

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Project Title:	High Impact ACE Team, Cost of Poor Quality (COPQ)
Objective:	Execute and improve a defined plan towards achieving a 15 percent reduction in COPQ warranty spend by the end of 2015 versus 2014.
Description:	<p>The Project focus is a detailed analysis and action plan implementation of Warranty COPQ drivers across all P&WC engine families (fan, shaft, propeller, regional), in order to attain a 15 percent reduction in COPQ warranty spend by the end of 2015 versus 2014. This initiative is driven by the Aftermarket Customer Service organization, and includes representatives from other organizations as members of the core team. The Project will provide a high level of interaction with the business and technical players on the team, while providing a great opportunity for mentorship, coaching and an overall understanding of P&WC's product and Aftermarket Business.</p> <p>Overall Milestone plan to include: A: Maintaining monthly COPQ metrics to achieve 15% reduction in 2015 versus 2014 B: Analyzing First Run & Concession "Worst Offenders", using "Key Warranty Drivers" Pareto C: Validating warranty spend allocation, identifying systemic issues and "chargeback" opportunities D: Developing Technical & Commercial "corrective action plans" for COPQ drivers E: Supporting "Warranty Return Process" improvement initiatives (ref: CSOP P-20 & CSOP P64) F: Applying Risk Assessment techniques, to identify "Emerging Issues"</p> <p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	COPQ warranty metrics package on a monthly basis, level 2 milestone plan to achieve roadmap objectives for 2015 and onwards, and final report covering work stated above and all the results obtained.
Benefit:	The identification of cost of poor quality drivers will aid in providing a focused plan to address reliability and durability issues, improving product performance and lifecycle cost.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office proficiency (Excel, PowerPoint, Word, etc), SAP (training provided as required)

Pre-requisite: Undergraduate Student in Engineering (any discipline), Business, Operations, or Program Management.

Contact Name: Shawn Bruno

Location: Longueuil

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Project Title:	Turbofan Pay Per Hour (PPH) Contract Management		
Objective:	Support contract review process, provide commercial and technical analysis.		
Description:	The student will support the PPH team to develop, justify and track cost reduction initiatives that will bring margin expansion to the company.		
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>		
Deliverables:	Provide short monthly project reports and a final report describing project proceedings and results obtained, more specifically: Report showing cost savings generated over project term Project time-line, tracking tools, and business cases for each initiative and project justification.		
Benefit:	This will benefit P&WC by defining projects that will promote increased profitability on Tfan engines.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	Microsoft office, Business Warehouse, SAP.		
Pre-requisite:	Undergraduate student in any discipline. Previous experience or skills in engineering, administration and project management are an asset.		
Contact Name:	Cedric Gauthier		
Location:	Longueuil		

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Project Title:	Engine Trend Monitoring and Maintenance Anticipation Methods (PT6A)
Objective:	Support the customer support program team with the development and implementation of process improvements and data knowledge evolution. This includes liaising Engine Health Monitoring data and Engine Oil Analysis data to the service engineering team, as well as developing new methods to pull part durability data and present it so as to be able to identify durability/cost/reliability drivers.
Description:	<ol style="list-style-type: none">1- Trend monitoring: selection of key parameters associated to health of engine components and system areas.2- Define maintenance work scope in relation to the findings and targeted engines.3- Prepare documents to communicate and implement new maintenance measures.4- Assist the material lab in developing the advance oil testing and establishing the engine family baseline.5- Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	<ol style="list-style-type: none">1 - Write summary report of trend monitoring findings and advance oil sampling test baseline and findings that lead to specific maintenance actions.2- Prepare communication documents a) Service Bulletin (SB) to define maintenance work scope b) Special Information Letter (SIL) and Special Instruction (SI) to communicate and implement specific maintenance actions.3 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
Benefit:	Avoid In Flight Shutdowns (IFSD), avoid Basic Unschedule Removals (BUR) and avoid extensive repair scopes.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	600 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office Excel, CRM, JView
Pre-requisite:	Knowledge of gas turbine engines, eager to learn and develop new maintenance anticipation methods, fluent in French and English.

Contact Name: Francis Marotte

Location: Longueuil

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Project Title:	APU (Auxiliary Power Unit) Transformation Project		
Objective:	Support specific activities related to the APU Transformation Project where key objectives are to repatriate the Product & Program support and The customer management of the Commercial APU segment, management tasks that are currently performed in San Diego, USA under another UTC division.		
Description:	The following tasks are to be performed: Support customer engineering day-to-day activities, analyze technical data and systems, and participate in the implementation of solutions. Analyze data from the field on these engine models, including warranty cost and repair workscope. Work with the customer engineers to implement systems and processes that will be required to manage this new engine family. Review existing data from shop repairs or shop events, to ensure engine reliability history is properly captured in the P&WC systems. Present your recommendation to the team. Following Program team decision deploy required actions		
	Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.		
Deliverables:	Repaired engines data and reliability data analysis Documentation and systems creations to manage these engines Creation & Modification of operating procedures and standard work		
Benefit:	This project will support transition activities, reliability, master data and Customer knowledge transfers as well as ensuring project deadlines are met within budget.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time		
Software:	Standard MS office, MS Project		
Pre-requisite:	Undergraduate, 2nd or 3rd year studies in mechanical engineering		

Contact Name: Lilian Yassa

Location: Longueuil

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Project Title:	Engine Trend Monitoring and Maintenance Anticipation Methods (PW100 / PW150)
Objective:	Support the customer support program team with the development and implementation of process improvements and data knowledge evolution. This includes liaising Engine Health Monitoring data and Engine Oil Analysis data to the service engineering team, as well as developing new methods to pull part durability data and present it so as to be able to identify durability/cost/reliability drivers.
Description:	<ol style="list-style-type: none">1- Trend monitoring: selection of key parameters associated to health of engine components and system areas.2- Define maintenance work scope in relation to the findings and targeted engines.3- Prepare documents to communicate and implement new maintenance measures.4- Assist the material lab in developing the advance oil testing and establishing the PW300 engine family baseline.5- Monitor and target which additional engines need pro-active #2 bearing and #2 bearing carbon seals replacement under a campaign program.6- Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>
Deliverables:	<ol style="list-style-type: none">1 - Write summary report of trend monitoring findings and advance oil sampling test baseline and findings that lead to specific maintenance actions.2- Prepare communication documents a) Service Bulletin (SB) to define maintenance work scope b) Special Information Letter (SIL) and Special Instruction (SI) to communicate and implement specific maintenance actions.3 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
Benefit:	Avoid In Flight Shutdowns (IFSD), avoid Basic Unscheduled Removals (BUR) and avoid extensive repair scopes.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	600 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office Excel, CRM, JView
Pre-requisite:	Knowledge of gas turbine engines, eager to learn and develop new maintenance anticipation methods.

Contact Name: Alexandre Fortier

Location: Longueuil

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Project Title:	Engine Trend Monitoring and Maintenance Anticipation Methods (Turboshafts)
Objective:	Support the customer support program team with the development and implementation of process improvements and data knowledge evolution. This includes liaising Engine Health Monitoring data and Engine Oil Analysis data to the service engineering team, as well as developing new methods to pull part durability data and present it so as to be able to identify durability/cost/reliability drivers.
Description:	<ol style="list-style-type: none">1- Trend monitoring: selection of key parameters associated to health of engine components and system areas.2- Define maintenance work scope in relation to the findings and targeted engines.3- Prepare documents to communicate and implement new maintenance measures.4- Assist the material lab in developing the advance oil testing and establishing the PW300 engine family baseline.5- Monitor and target which additional engines need pro-active #2 bearing and #2 bearing carbon seals replacement under a campaign program.6- Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
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Deliverables:	<ol style="list-style-type: none">1 - Write summary report of trend monitoring findings and advance oil sampling test baseline and findings that lead to specific maintenance actions.2- Prepare communication documents a) Service Bulletin (SB) to define maintenance work scope b) Special Information Letter (SIL) and Special Instruction (SI) to communicate and implement specific maintenance actions.3 - Revise the Engine Maintenance Manuals (EMM) and Overhaul Manuals (OM) where required to implement any permanent maintenance actions.
Benefit:	Avoid In Flight Shutdowns (IFSD), avoid Basic Unscheduled Removals (BUR) and avoid extensive repair scopes.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	600 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office Excel, CRM, JView

Pre-requisite: Knowledge of gas turbine engines, eager to learn and develop new maintenance anticipation methods.

Contact Name: Roger Lachance

Location: Longueuil

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Pratt & Whitney Canada

Une société de United Technologies / A United Technologies Company

Project Title:	P&WC Helicopter After Market Support
Objective:	<ul style="list-style-type: none">- Coordination of engine field retrofit/modification.- Coordination of turboshaft oil analysis project- Improve Excel tool to analyze the helicopter mission data- New turboshaft engine introduction support
Description:	<p>Main tasks to be performed:</p> <ol style="list-style-type: none">1. Coordination of engine modification done in the field (Asia, Europe and North America) by mobile repair team.2. Complete oil analysis (COAT) is a P&WC owned oil analysis process used to proactively identify premature engine parts degradation. The objective of this project is to integrate the different phases (oil sampling, oil analysis, results interpretation and feedback to the customer) of the COAT process and to implement it on 3 turboshaft families.3. Improve a tool to analyze the helicopter mission data to proactively identify the inadequate engine behavior and prevent any engine unscheduled event.4. Work with the customer engineering team on the new engine model entry into service action plan. This could include field maintenance procedure, new tooling, new process to be implemented.
	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	<ul style="list-style-type: none">Create and follow the schedule for engine retrofitFinalize the actions for entry into serviceCOAT implementation on 3 engine modelsImproved tool to analyze the helicopter mission data
Benefit:	<ul style="list-style-type: none">Engine improvement implemented on time on engines in service.The entry into service actions will make sure P&WC can support new product in the field.COAT will give P&WC the ability to proactively identify oil system component degradation.The helicopter mission analysis toll will give us the ability to proactively look at the engine behavior.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours
	Full-Time
Software:	Microsoft Office and Internal P&WC SW (mostly database)

Pre-requisite: Undergrad student in Engineering

Contact Name: Isabelle Bacon

Location: Longueuil

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Project Title: Pricing Analysis / Business & Technical Review of Ageing WIP

Objective: Créer des outils de tarification robustes, qui peuvent facilement s'adapter aux augmentations globales annuelles et/ou ajustement de prix, item-par-item.
Diminuer l'inventaire des pièces en cours (WIP) dont la valeur présente est au-dessus de \$300,000. Plus particulièrement, le travail sera de réduire l'inventaire vieillissant des pièces en cours (ageing wip) en collaborant avec les départements : Ventes, Support aux Clients et autres départements pour cibler les items et déterminer un plan pour résoudre les problèmes en suspens et les transférer en ventes.

Creation of robust pricing tool, able to easily accommodate for yearly global escalations and/or item-by-item pricing adjustments. Ageing WIP reduction-Ageing WIP currently valued at \$300k. Task is to reduce ageing WIP by liaising with Sales, Customer Support and other departments to target items and determine plan for resolving outstanding issues and turn WIP into sales.

Description: *English follows*

L'étudiant(e) devra effectuer une analyse de la marge sur les composantes, menant à la création d'un outil de tarification.
L'outil de tarification (base de données Excel ou Access) devra être un outil robuste qui permet une certaine souplesse dans les ajustements de prix annuels.

L'étudiant(e) devra également revoir le rapport des travaux en cours (WIP), investiguer les raisons des délais, proposer des plans d'action à soumettre en liaison avec divers groupes, tout en documentant les procédures et mettre en place des mesures préventives.

The Student will be required to perform margin analysis on components, leading up to creation of a pricing tool. Pricing tool (Excel or Access database) should be a robust tool that allows for flexibility in yearly pricing adjustments.

The Student will also be required review WIP report, investigate reasons for delays, derive action plans to address in liaison with various teams all while documenting the process and putting in place preventive measures.

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Deliverables:	<p>Devra livrer à la fin de l'analyse complète du projet : documentation, actions prises / actions proposées, aussi bien que des propositions préventives mesurables qui seront soumis à PWC.</p> <p>At the end of the project full analysis, documentation, tools created, actions taken/ actions proposed as well as proposed preventive measures be submitted to PWC.</p>
Benefit:	<p>Cet inventaire vieillissant a été identifié comme un haut potentiel de vente. En ayant une ressource dédiée à cette activité (les ressources présentes sont déjà très occupées), l'inventaire (ageing WIP) peut être réduit et transformé en ventes.</p> <p>L'activité de tarification demande présentement beaucoup de temps, des processus manuels – la création d'un outil réduira les heures de travail nécessaires sur une base annuelle.</p> <p>This ageing inventory has been identified high potential for sales. By having a resource dedicated to this activity (current resources are stretched) WIP inventory can be reduced and turned into sales.</p> <p>Pricing activity is currently extremely time consuming, manual process – creation of tool will reduce man hours required on a yearly basis.</p>
Schedule:	<p>Starting Date: 24 August 2015 Ending Date: 23 December 2015</p>
Number Hours:	<p>500 hours with potential extension of 200 hours</p> <p>Full-Time</p>
Software:	<p>MS Office products (Very good Excel knowledge), SAP Produits MS Office (Très bonne connaissance en Excel) SAP</p>
Pre-requisite:	<p>Étudiant(e) de premier cycle – Gestion, Finance, Commerce, Affaires Undergrad -, Business, Management, Finance, Commerce</p>
Contact Name:	<p>Adeem Khan</p>
Location:	<p>Saint-Hubert</p>

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Project Title:	Review and/or Modifications to Aircraft Engine Accessories - Maintenance Instructions
Objective:	The project will provide an understanding of technical writing, publications preparation support and project management for creating and revising Abbreviated/Component Maintenance Manuals (A/CMM) related to electrical harnesses, electronic switches/sensors, fuel delivery and pneumatic accessories on our various gas turbine engines.
Description:	<p>The Student will work in close collaboration with a group that creates and revises Abbreviated/Component Maintenance Manuals (A/CMM).</p> <p>The following tasks will have to be performed:</p> <ul style="list-style-type: none">• Incorporate technical changes into existing A/CMMs and CMMs;• Proof-reading and verifications (with actual validations) on engine accessories;• Project Management on meeting new engine Entry into Service (EIS) A/CMM and CMM requirements;• Reviewing new engine accessories during EIS process for future repair-ability and cost savings (Optional).
	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	<ul style="list-style-type: none">• Assist in responding to technical queries from both internal and external customers.• Assist the ACMM group with technical support, quality checks, proof-reading and verifications/validations on multiple A/CMMs related to overhauling and maintaining various engine accessories, Line Replacement Units (LRUs) and some airframe nacelle components.
Benefit:	The Project will provide an experience for the participant in how P&WC creates and distributes A/CMMs to our many customers and a better understanding of how aftermarket support documentation relates to our PWC Accessories Business. At the same time, the participant will also help the A/CMM team reduce the current backlog related to both new and revised A/CMMs.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours
	Full-Time
Software:	Familiarity with HTML/SGML styles and other internet-related codes is an asset.

Microsoft Office (i.e. Excel, Word, Access and Visio).

Pre-requisite: Student in mechanical or electronic engineering preferred.
Excellent English is a requirement, both written and spoken.

Contact Name: Ronald Dane

Location: Saint-Hubert

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Project Title: eChannel – Business/Technology Analyst

Objective: *English follows*

Le mandat de l'analyste d'affaire/ technologique est de rechercher, d'analyser et de documenter les requis d'affaires et techniques. L'analyste travaillera avec une équipe dédiée au lancement et l'opérationnalisation du nouveau portail client.

The Business/ Technology Analyst mandate is to assess, research, analyze and document business and system needs and drive towards business and systems transformation. The analyst will be working with a team dedicated to the launch and operationalization of a new customer eBusiness portal.

Description: *English follows*

- Travailler dans un environnement dynamique afin de coordonner des ateliers, analyser des données, articuler de l'information et documenter des projets ou tous autres livrables.
- Coordonner des ateliers avec de nombreuses unités d'affaires dans le département de service après-marché afin de comprendre et déterminer les requis pour un amélioration futur d'une plateforme eBusiness.
- Amasser, définir, documenter et prioriser les requis de façon structurée afin d'identifier les risques, impacts, complexité et valeur qui sont associés avec ceux-ci.
- Documenter les impacts associés à la livraison de nouvelles fonctionnalités et services intégrés à la plateforme eBusiness.
- Développer un plan de redressement pour les impacts identifiés.

- Working in a fast-paced start-up team environment to coordinate workshops, analyze data, articulate insights and document assessments and other deliverables.
- Coordinating workshops with various business units in the aftermarket space to understand and determine business requirements for an upcoming eBusiness platform release.
- Gathering, defining, documenting and prioritizing requirements in a structured manner.
- Identifying impacts, risk, effort and value associated with requirements.
- Documenting impact assessment of new services/requirements to be integrated into eBusiness platform.
- Mitigate the impacts documented into a change plan.

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Deliverables:	Rapports réguliers au superviseur immédiat et un rapport final à la fin du mandat. Regular reports to supervisor and a final report.
Benefit:	L'étudiant sera en mesure de supporter l'initiation de la transformation d'un portail client vers un portail réellement Best-in-class. The Student will be able to support the initiation of an enhancement project, which will make the portal a best-in-class platform in the aerospace industry.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	- Microsoft Excel et PowerPoint - Expérience/ connaissances avec des outils ERP et CRM un atout - Microsoft Excel and PowerPoint - Experience/knowledge of ERP software, especially CRM-related, as an asset
Pre-requisite:	Étudiant en administration des affaires ou en ingénierie de la production automatisée ou encore en TI, avec un bon esprit d'analyse et des facilités avec les TI. - Expérience/ connaissances avec des techniques et des méthodes d'analyse (un atout) - Expérience/ connaissances avec des portails clients ou des plateformes eBusiness (un atout) - Expérience à même un environnement B to B (un atout) Student in business administration, or automated production engineering or IT, with good analytical skills and facilities with IT. - Experience/understanding of customer analytics methods, tools and processes (an asset) - Experience/understanding of customer portals, eBusiness (an asset) - Experience in B2B environments (an asset)
Contact Name:	Olivier Blais
Location:	Saint-Hubert

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Project Title: PT6A Turboprop Engineering Project Management ****OPEN TO PART-TIME****

Objective: *English follows*

Assister l'ingénieur de projet (IP) dans le développement et les essais de nouvelles conceptions d'installation moteur PT6A turboprop.

Assist project engineers (PE) to develop and test new engine designs for PT6A turboprop aircraft installations.

Description: *English follows*

- Assister l'ingénieur de projet (IP) dans les nouvelles conceptions du produit, incluant la définition des exigences techniques, les échéanciers et les livrables;
 - Assister l'IP dans la vérification, la validation et la certification parmi une équipe multi-disciplinaire;
 - Assister l'IP dans le développement et le suivi des échéanciers du programme;
 - Assister l'IP dans la réduction du poids et du coût du produit;
 - Assister les opérations manufacturières, service-client et marketing;
 - Assister les tâches de gestions budgétaires du programme;
 - Assister l'IP et le Directeur du Programme, si requis;
 - Assister le développement de nouveaux outils de gestion et de planification internes à la compagnie.
-
- Assist PE new product design, including setting technical requirements, schedules and deliverables;
 - Assist design verification, validation and certification activities within a multidisciplinary team;
 - Assist development and tracking of Program schedule;
 - Assist weight and cost reduction tasks;
 - Assist to Manufacturing Operations, Field Service, Marketing;
 - Assist program budget management tasks;
 - Assist Program Director/Manager and Project Engineers as required;
 - Assist development of new management and planning tools internal to the company.

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Deliverables:	<ul style="list-style-type: none"> • Adapt and tailor to PT6A Turboprop Project Engineering department some new IT management tools and applications. These IT applications are already available internally at PWC. • Present to a team of Project Engineers new management tools and assist in implementation. • Generate new parts lists, preparation, installation and instrumentation for engine testing. • Create, revise and carry to final approval internal official documents related to new engine programs. • With responsible PE, assist management of development, analysis, testing and reporting on new potential PT6A turboprop engine aircraft installations.
Benefit:	Student will benefit the PT6A Project Engineering group by assisting with managing engineering changes, technical communications with suppliers and customers, overseeing design jobs and milestones.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Open to either
Software:	MS Projects, MS Office tools.
Pre-requisite:	Étudiant en ingénierie aéronautique ou mécanique possédant des habiletés de communication. La personne recherchée doit être organisée, capable de travailler de manière autonome, et elle doit avoir une forte capacité d'adaptation. <u>L'étudiant doit être disponible un minimum de 3 jours par semaine.</u> Undergraduate student in Aerospace or Mechanical Engineering with: <ul style="list-style-type: none"> • Strong organization and communication skills; • Self-starter and remain focused to task closure; • Strong adaptation skills; • Innovative approach; • Strong analytical skills; • Ability to synthesize rapidly. <u>Student must be available at least 3 days a week.</u>
Contact Name:	Patrice Dionne
Location:	Longueuil

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Pratt & Whitney Canada

Une société de United Technologies / A United Technologies Company

Project Title: Commercialization of New Intellectual Property

Objective: Commercialization of new intellectual property.

Description: *French follows*

P&WC has developed in-house technologies that have the potential to disrupt the existing industry, and is working on commercializing them, to its own markets and adjacent markets. The Student will participate, as part of a multi-disciplinary team (including marketing, customer service, engineering, IT, legal) to the following tasks:

1) Project Management

- Assist with development of project timeline, work breakdown structure and resource requirements
- Anticipate, communicate and manage risks to project success.
- Manage and communicate project status, schedule, and deliverables.
- Contact customers and follow up on data gathering
- Coordinate logistics between operators, customer service and external partners
- Report progression of the campaign

2) Customer Segmentation

- Perform market research to understand the competitive environment
- Evaluate potential market opportunities and value proposition in given market

3) Go-to Market Strategy

4) Tools and Process Development

5) Communications Plan

- Ability to compose business correspondence and marketing materials and effectively communicate technical concepts to a non-technical audience

6) Business model/Business case

P&WC développe des technologies qui ont le potentiel de transformer l'industrie et travaille à leur commercialisation, dans ses marchés principaux et adjacents. L'étudiant participera, en tant que membre d'une équipe multidisciplinaire

(incluant marketing, service client, ingénierie, TI, légal), aux tâches suivantes :

1) Gestion de projets

- Participer au développement de la planification du projet, incluant l'allocation des ressources
- Anticiper, communiquer et gérer les risques
- Gérer et communiquer le statut du projet, de l'échéancier et des livrables,
- Contacter les clients et faire le suivi sur leurs actions
- Coordonner la logistique entre les opérateurs, le service à la clientèle et les partenaires externes
- Faire le compte rendu de la progression de la campagne

2) Segmentation client

- Effectuer des analyses de marchés afin de comprendre l'environnement compétitif
- Évaluer les différentes opportunités de marché et définir la proposition de valeur pour chacun des marchés

3) Participer au développement du plan de commercialisation

4) Participer au développement des outils et des processus

5) Gérer le plan de communication

- Habileté à composer la correspondance d'affaires et le matériel de marketing afin de communiquer efficacement des concepts techniques à une audience non-technique

6) Développement du modèle d'affaire et de l'analyse de rentabilité

Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.

Deliverables:	At the end of this project, the technology will be ready for commercialization and new services will be (or will be about) to be launched. All technical/market validation will be completed.		
Benefit:	P&WC's roadmap objectives include the launch of new services driven by new technologies. This project is exactly aligned with the company objectives.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	600 hours with potential extension of 240 hours		
	Full-Time		
Software:	PowerPoint, Word, Excel		
Pre-requisite:	We are looking for a masters student that is driven, autonomous (limited supervision) and that is adaptable in a context where the mandates and deliverables are not always clear. The student must be attentive to details and work to the highest standards, and be able to work in a multi-disciplinary team. Even if the mandate is not technical in nature (technical background is an asset but not mandatory), the student must be comfortable working with complex technologies.		
	- Master degree		
	- Business, technical/engineering background is a strong asset		

	Nous recherchons un étudiant motivé, autonome (supervision limitée) et adaptable dans un contexte où les livrables ne sont pas toujours clairs.		
	- Étudiant à la maîtrise		
	- Bagage technique un atout		
Contact Name:	Frédérique Richard		

Location: Longueuil

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Project Title: Continuous Improvements – Mirabel Aerospace Center

Objective: Participate in continuous improvement initiatives at Mirabel Aerospace Center.

Description: *English follows*

Le mandat principal de l'étudiant(e) sera d'assurer la réalisation de projets d'amélioration continue (comme des études de temps, 5S, Cartographie des valeurs, etc.) dans la nouvelle usine d'assemblage de PWC à **Mirabel**. Il ou elle aura aussi à participer l'élaboration du système d'amélioration continue en fonction des normes établies par United Technologies.

Le ou la candidat(e) devra aussi assister l'entrée en production de deux nouveaux modèles de moteur à l'usine de Mirabel. Le ou la stagiaire aura la chance de travailler sur des projets spéciaux avec l'équipe de soutien afin d'améliorer le processus d'assemblage dans une perspective d'amélioration continue et de qualité des procédés. Il ou elle pourra également participer au développement de la stratégie d'automatisation de la ligne d'assemblage.

The Student's principal mandate will be to ensure the implementation of continuous improvement projects (such as Time Studies, 5S, Value Streaming Map, etc.) in the new PWC Engine Center **at Mirabel**. He or she will also have to contribute to the development of the continuous improvement system itself following United Technologies Standard.

The candidate will also have to assist the entry into production of two new engines in its assembly and test facility at Mirabel. The Student will have the chance to work on special projects with the Support Team in order to improve the assembly process in a perspective of continuous improvement & process quality. He or she may also have to participate in the development of the automation strategy for the assembly line and equipments.

- Deliverables:
- Management Tools
 - Time studies
 - Continuous improvement projects
 - Develop and update ACE Board (continuous improvement summary board) and metrics

Benefit: The Student's work will help Mirabel Aerospace Center (PW&C) to accelerate the progress in terms of efficiency and product quality daily by realizing various projects following a continuous improvements

approach. Student's direct implication with the assembly line Support Team will be beneficial for PW&C because he or she will have the occasion to work on special projects in order to improve the assembly process and work methods. His or her collaboration in the development of the system will contribute to set and sustain Mirabel's Facility as the new World leader for Operational Excellence.

This Project will also allow P&WC to enrich its bank of qualified candidate for future jobs.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 600 hours with potential extension of 125 hours

Open to either

Software: Microsoft Office (Word, Excel, Power Point, Visio)

Pre-requisite: Undergrad student in Mechanical, Aerospace or Industrial Engineering, Operations Management or Automated Production Management.

Student must speak french fluently and be functional in English. English and French writing aptitudes are mastered.

Students available full-time will be considered first.

Contact Name: Julien Michaud-Latour

Location: Mirabel

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Pratt & Whitney Canada

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Project Title:	Mise sur pied d'un projet d'implémentation de charge variable électrique régénérative pour les moteurs générateurs auxiliaires
Objective:	Définir la solution et le plan budgétaire de la mise en place de charge variable régénérative pour les bancs d'essai de développement des APU (Auxiliary Power Unit).
Description:	<p>Mandat principal</p> <p>L'étudiant devra étudier une solution pour régénérer sur le réseau l'énergie produite par les tests moteurs de la gamme de moteur APU. Ces moteurs possèdent des générateurs 120VAC 400Hz de puissance variable (45 à 150 KVA). Il devra faire la liste des items commerciaux et ainsi produire un estimé budgétaire du projet. Il devra évaluer l'énergie et les coûts engendrés et sauvés par un tel système dans le contexte d'opération des bancs d'essais en question et ainsi produire une évaluation de la rentabilité du projet.</p> <p>Mandat secondaire</p> <p>L'étudiant devra produire un guide d'opération et de maintenance d'un des nouveaux bancs d'essais d'APU. Ce guide devra comprendre l'opération d'un moteur dans le banc d'essai, une description des différents systèmes et de leurs fonctionnalités, les pièces de rechange et les PM recommandés. Pour ce faire, l'étudiant devra communiquer avec les différents intervenants (maintenance, opérateur, Test engineer, Technicien en instrumentation) et rassembler toute l'information nécessaire à la mise en place d'un tel guide.</p>
Deliverables:	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p> <ul style="list-style-type: none">- Rapport complet (solution, coût, prévision de bénéfice) pour une solution de charge variable régénérative pour les bancs d'essai d'APU.- Manuel d'opération et de maintenance d'un banc d'essais d'APU.
Benefit:	Le projet permettra de mieux comprendre la problématique d'installation d'une charge variable régénérative et pourrait déboucher sur l'implémentation réelle de la solution retenue. Actuellement, toute l'énergie produite par les tests des moteurs est dissipée sous forme de chaleur à l'extérieur de l'usine.

La rédaction du manuel d'opération aidera Pratt & Whitney Canada à effectuer la formation des nouveaux opérateurs et ingénieur de test dans les bancs d'essais d'APU.

Schedule: Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 160 hours

Full-Time

Software: Suite office, en particulier Word et Excel.

Pre-requisite: Bachelier en ingénierie électrique (2e ou 3e stage)

Contact Name: Simon Lebeuf

Location: Longueuil

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Project Title:	Write Best Practice Document to Support Typical Engine or Component Test Require To Develop and Certify a Turbomachine
Objective:	Capture and document the best practice use to perform typical testing during the phase to develop and certify a turbomachine.
Description:	<p><i>French follows</i></p> <p>The candidate will assist the Validation Engineer of a gas turbine, within a development engineering team to review the current working practice to perform engine test, identify the best working method and document them in order to ensure a solid and repeatable validation methodology for the different new engine model in development at the edge of the technology. In this term the projects identified to documents are but not limited to are: high pressure wear peg test (gap measurement) and fire resistance test on gear box (AGB).</p> <p>Le candidat devra assister les ingénieurs de Validation de turbine a gaz ,au sein d`une équipe de l`ingénierie de développement à revoir les pratiques de travail en place , identifier les bonne façon de faire dans le but de les documenter pour assurer une méthodologie de validation consistante à la fine pointe des plus ressentie connaissance acquises pour les tout les différent futur moteur en développement. Les projets identifié pour documenter la méthodologie d`essai dans ce mandat mais non limité à seront : l`essai de mesure de gap de turbine de haute pression et l`essai de résistance au feu de boite d`engrenage (AGB).</p>
<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>	
Deliverables:	Provide best practice documents and short monthly project reports, along with a final report describing project proceedings and results obtained.
Benefit:	The project will provide a consistent approach to conduct test activities among new engine program. It will improve the rate of success to conduct a test with the best known methodology and technology and continue to build on it for further improvement.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015

Number Hours: 500 hours with potential extension of 200 hours
Full-Time

Software: MS Office (Word and Excel)

Pre-requisite: Undergraduate student in Mechanical Engineering
Preferably completing their 3rd year

Contact Name: Benoit Barrette

Location: Longueuil

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Pratt & Whitney Canada

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Project Title:	Export Compliance Analysis
Objective:	The goal is to become world best in class in the Export Compliance Domain. The ITC (International Trade Compliance) group is linked to the Legal department and as the mandate to ensure that the whole company is compliant and aligned across P&WC in Export compliance.
Description:	<p>The ITC export compliance Student will support the "hotline" to release parts /engines once all cleared from our dept. Business Process Mapping – International Trade Compliance Business Requirements for Operations Business Units (Canadian Manufacturing, Engine Center, Global Logistics, Facilities Engineering, Supply Management).</p> <ol style="list-style-type: none">1. Develop tools (licensing) on different programs – training material;2. Assist with preparation to audit;3. Create/modify Export Compliance Work Instructions;4. Complete Electronic Dashboard of all our Key Performance Indicators.
	<p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	<ul style="list-style-type: none">• Complete Dashboard and Transfer to Global Sharing tasks our Key Performance Indicators.• Develop training material (licenses) and tool for reporting purposes.• Standardization business operations & pillars KPIs.• SharePoint new initiatives launched and migrated into our site. (vrooms)• Mapping of all ITC business processes
Benefit:	Eliminate waste across processes. Map the steps of our processes using (visio). Document certain process in order to outsource them to a global sharing third party. Organize the licences consolidation function.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours
	Full-Time
Software:	SAP, Visio Microsoft Office (Excel especially)

Pre-requisite: Undergraduate or Graduate Studies
Previous ACE experience
International background is an asset

Contact Name: Viviane Conan

Location: Longueuil

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Project Title:	PPH Automation
Objective:	Assist in the implementation of Life Of Plan (LOP) tool within PPH business. PPH business is a value chain that extend to 5 specific groups; Plan Generation, Plan management, Administration, Finance and Sales. The LOP project is now ready for progressive implementation in the business and thus require a strict and systematic plan for change management.
Description:	<p>The Student's mandate will be to co-lead change management efforts during the implementation of the Life of Plan (LOP) tool. This will require to identify and organize process review sessions while documenting outputs and creating a sustainable structure to allow for dynamic access and review of process for future reference and changes.</p> <p>This will require some basic IT skills with high understanding of business fundamentals and structure. This position will require flexibility and high interpersonal skills to deal with various groups within our business.</p> <p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	100% of maintenance plans loaded into the new LOP system User training deployed. Exclusive use of the tool on 5 key maintenance contracts.
Benefit:	Development and implementation of LOP tool will increase P&WC aftermarket pay per hour programs while ensuring sustainability of all associated productivity gains.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office suite (PowerPoint, Excel, Word), SAP
Pre-requisite:	Undergraduate Student in Mechanical Engineering and/or Business basic IT skills understanding of business and finance principals and process mapping, Team Player, Motivated and Versatile

Contact Name: Mario Lapointe

Location: Longueuil

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Project Title:	Reducing the Number of Engineering Inquiries (EI) for Certain Gas Turbine Engine Components		
Objective:	Identify the engine components with the most (Engineering Inquiries) EI's received by Components Engineering department and perform preventive actions to reduce these EI's.		
Description:	When the deviation on a component is outside the repair limits published in PWC manuals, the repair shop could request for a deviation acceptance or repair through an EI that will be evaluated and dispositioned by an engineering group. Several thousand EIs are dispositioned each year by Components Engineering department. Analysis of these dispositions for the components with the most EI's such as the Turbine Exhaust Duct and the Compressor Stator will lead to identifying acceptance and repair criteria that could be incorporated into repair manuals. These incorporations will avoid receiving new EIs on same deviation for these components.		
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>		
Deliverables:	Documents Change Requests to incorporate EIs into manuals.		
Benefit:	<ul style="list-style-type: none">• EIs disposition TAT improvement by reducing the number of requests• Cost reduction of repair by avoiding an engineering intervention• The Student will learn about the function and design aspects of Gas turbine engine components and repair process in a shop will also get to see hardware		
Schedule:	Starting Date: 24 August 2015	Ending Date: 23 December 2015	
Number Hours:	500 hours with potential extension of 200 hours		
	Full-Time		
Software:	MS-office Lotus notes Outlook Documentum SAP		
Pre-requisite:	Undergraduate studies in Mechanical / Materials Engineering.		

Contact Name: Don Drego

Location: Saint-Hubert

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Project Title:	New Powerplant Analytical Studies		
Objective:	Support the dedicated Engineering team to various analytical work.		
Description:	Depending on priorities and specific skills, the Student may have to support various kinds of studies with computers, whether perform structural and thermal analysis, or some engine performance analysis. This includes analysis of test data and model calibration. Develop, optimize and validate analysis tools for a new type of powerplant for general aviation use. Assist in performing post-test hardware inspections and conducting investigations.		
	<div style="border: 2px solid red; padding: 5px; color: red;">Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</div>		
Deliverables:	Develop analytical tools and/or perform studies of various configurations using new tools and/or existing tools.		
Benefit:	The Project is part of a company strategy to investigate and develop new types of powerplants which provide the potential for substantial fuel consumption improvements versus current small gas turbine aeroengines but need improvement of power to weight and reliability to aero standards. The Student will contribute by better understanding the physics of the alternative powerplants and help the company develop them to a competitive state in the general aviation.		
Schedule:	Starting Date: 24 August 2015	Ending Date:	23 December 2015
Number Hours:	600 hours with potential extension of 150 hours		
	Full-Time		
Software:	Matlab ANSYS Mechanical/APDL CATIA V5 CFX FLUENT Excel PowerPoint		

Pre-requisite: Graduate Student in Mechanical or Aerospace Engineering
Strong analytical mind with applied knowledge of basic Engineering principles and analysis tools.

Contact Name: André Julien

Location: Longueuil

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Project Title:	Support to Seal Team Rig Projects
Objective:	Provide support to tasks related to the Seal Team Project, including rig design support, test planning, instrumentation and inspection definitions, and test procedure.
Description:	AGB Seal Rig Preparation. The following tasks are to be performed: <ul style="list-style-type: none">• Assist in the coordination and design reviews of the rig design• Support Test Section Design in the rig design• Prepare test plans, instrumentation requirements, inspection requirements, and test procedures
	<div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>
Deliverables:	Excel Tools with associated documentation (User Guides), comparison of analytical stress results between Excel and ANSYS.
Benefit:	Assist the Mechanical Component Centre in the development of tools and knowledge to design dependable main shaft and gearbox seals.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	600 hours with potential extension of 200 hours Full-Time
Software:	Microsoft Office with Excel, Word, and Powerpoint. Catia V5, ANSYS
Pre-requisite:	- Undergraduate student in Mechanical Engineering having completed at least 2 years of study. - Bilingual (English – French).
Contact Name:	Julie Francoeur
Location:	Longueuil

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Project Title:	Metals Data Compilation, Analysis, and Reporting
Objective:	Collect metallic data from internal and external sources, prepare for database integration, and upload; eventually also prepare statistical and material analysis of test data and compose analytical summary memos for distribution to interested modules.
Description:	Data exists in multiple locations and formats for the metallic class of materials. In order to select the correct material for a given application, data needs to be aggregated in a way that permits comparisons of the relevant properties. Some needed data may not be available. By comparing standard Technology Readiness Level (TRL) test matrix with available data, a clear picture of what is still required can be obtained. Request for Test documents will be produced to detail the steps necessary to obtain the missing data. Once data has been collected and inserted into the database for storage, analysis of the data will be done and reported back to supervisor and engineers in structures and dynamics modules.
	Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.
Deliverables:	Provide short monthly project reports and a final report describing project proceedings and results obtained as well as: <ul style="list-style-type: none">• Summary of data with links to database documents containing specific data.• Request for test (RT) documents inquiring further material testing.• Analytical summary memos (ASM) detailing results of testing.
Benefit:	Understanding the metallic materials' behavior and capabilities will enable P&WC to set design envelopes accordingly. Centralization and indexing of data also facilitates comparison of similar test results on a variety of materials.
Schedule:	Starting Date: 17 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extension of 200 hours Full-Time
Software:	Excel, Word, Minitab, Granta
Pre-requisite:	Undergraduate Student in Engineering

Possibility of extension for an 8 months internship

Contact Name: Joel Larose

Location: Longueuil

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Project Title:	Next Generation Product Design for Aftermarket
Objective:	Complete aftermarket life cycle study in regards to the design of a new engine program including repair & workscope definition, control system troubleshooting and health management.
Description:	Main tasks to be performed: <ul style="list-style-type: none">- Participate in components repair definition in preparation for proposals;- Business case estimation at the part and the engine level;- Develop a tool to analyze the impact of any change of decision on Workscope;- Participate/Develop a tool to estimate the cost of potential risks and/or opportunities (DMC);- Support the Partnership organization on specific demands related to previous tasks;- May support the control system troubleshooting and health management activities on request. <p>** Upon mutual agreement, possibility of extension for an additional term.</p> <div style="border: 2px solid red; padding: 5px;"><p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p></div>
Deliverables:	<ul style="list-style-type: none">- Report on current system repair capability;- Complete understanding of repair impact on newest component technologies and cost estimations.
Benefit:	Perform technical analysis or studies and provide recommendations to the PW800 Program team.
Schedule:	Starting Date: 24 August 2015 Ending Date: 18 December 2015
Number Hours:	500 hours with potential extension of 150 hours Full-Time
Software:	Microsoft General softwares, Excel (expert and VB) recommended
Pre-requisite:	Undergraduate student in Mechanical Engineering
Contact Name:	Patrick M. Paradis
Location:	Longueuil

Tous les candidats doivent être légalement autorisés à travailler au Canada. Au cours du processus d'embauche, les candidats retenus seront appelés à compléter une évaluation de sécurité en vertu du règlement des Marchandises Contrôlées du gouvernement du Canada et présenter des copies de pièces d'identité valides et en règles.

Pour en apprendre davantage sur le règlement des Marchandises Contrôlées :

<http://ssi-iss.tpsgc-pwgsc.gc.ca/dmc-cgd/index-fra.html>

Successful applicants must be legally entitled to work in Canada. During the hiring process, every retained candidate will be required to complete a security clearance in compliance with the Controlled Goods Directorate from the government of Canada and present valid and up-to-date copies of pieces of identification.

To learn more about the Controlled Goods Program :

<http://ssi-iss.tpsgc-pwgsc.gc.ca/dmc-cgd/index-eng.ht>

NOTICE - EXPORT CONTROL COMPLIANCE
This document contains no technical data



Project Title:	Repair Development - Accessories Services Engineering
Objective:	Assist the engineering department during the repair development on engine accessories in order to reduce the turnaround time, the operator cost and increase P&WC margin.
Description:	<p>Documentation used to perform maintenance on accessories describes how to inspect and perform some repair on components. However, these repairs are very generics and do not covers all type of damages. Therefore, the engineering department develops additional repairs.</p> <p>An engine accessories can be found in the fuel system (fuel control unit, pump, injector, ...), in the pneumatic system (bleed valve, power turbine governor, torque limiter, ...) or in the electrical system (wiring harnesses, speed sensor, temperature sensor, pressure sensor, ...).</p> <p>These opportunities involve repair development using reverse engineering technique. The student will lead some projects with the assistance of shop technician and will have to determine the appropriate substantiation with the support of plant 5 engineering department and plant 1 R&D group in order to comply with Transport Canada regulation. Student will also be involved in test qualification such as metallurgical analysis, tomography, crack inspection (FPI & MPI), X-Ray and dimensional inspection with a CMM.</p> <p>Please note that if you are selected for an interview, you will be notified on May 25th. All interviews will be held Friday, May 29th in Pratt & Whitney facilities in Longueuil. Thank you to ensure you are available on May 29th in the morning before applying for this project.</p>
Deliverables:	The complete process is mapped and the progress is monitored through the repair database. Deliverable will be monitored thru this database with departmental objective. A repair is considered completed when the engineering instruction is substantiated, approved and issued.
Benefit:	This project has a direct impact in P&WC margin and/or customer operating cost and will be part of the plant 5 (accessories) engineering department roadmap.
Schedule:	Starting Date: 24 August 2015 Ending Date: 23 December 2015
Number Hours:	500 hours with potential extention of 200 hours

Full-Time

Software: Microsoft Office Suite (Excel/Word/Access), SAP

Pre-requisite: Level of Education: Undergraduate Student
Field of Study: Mechanical Engineering
Other pertinent information, if any: Person with leadership and team player skills, autonomous, motivated and inquisitive. While Internship is set in a predominantly French environment, acceptable level of English is required since all technical documents are written in English. Internship at Pratt & Whitney Canada plant 5 (St-Hubert)

Contact Name: Éric D'Amour

Location: Saint-Hubert