

Research @ UPEI Start-Up Guide

Office of Research Services

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1. RESEARCH AT UPEL

1.1 What is Research?

To assist in understanding whether the project is **Research** or **Operations**, UPEI has adopted the following definition for Research.

"Investigation or experimentation aimed at the discovery or interpretation of knowledge, the systematic collection or revision of knowledge in light of new facts or theories, the development and application of methodologies to increase knowledge and the practical application of knowledge to specific problems or circumstances." ¹

Further to the definition noted above, Research possesses all the following characteristics:

- The primary goal of the activity is to advance general knowledge in the academic, scientific, or professional community.
- The scope of work and experimental design is determined by the **Principal Investigator**, or jointly with the sponsor/partner; and,
- The activities are intended to lead to scientific or scholarly findings.

The above research can be funded through a multitude of sources. In addition to the above definition, **Sponsored Research** includes funding provided to the University by the Canadian federal or provincial government to support Research, infrastructure, and assets (e.g., Canada Foundation for Innovation) or the further development or commercialization of research outcomes.

The start-up guide is intended to aid those involved in Research at UPEI. Research accounts at UPEI are prefaced with the digit "6" and often provide a simple indicator of Research activities.

1.1.1 If it is not Research, it is Operational

If the characteristics do not align with Research, it is an **Operational Contract or Agreement**. For clarity, Operational Contracts or Agreements include services and activities that have the following characteristics:

- The primary goal of the activity is to apply existing knowledge to solve a defined problem or generate data of limited general application.
- Industry/partner determines the scope of work and project design.
- The application of established publicly known or proprietary testing protocols or existing research tools (without material modification) or specific expertise is aimed at achieving an industry/partner-driven outcome.
- There is no expectation of outcomes that would be publishable in peer-reviewed journals.
- There is no expectation that the activity will generate patentable inventions or innovations.

When the activities meet the definition of an Operational Contract, the contract will be submitted for <u>Operational review</u>. Please complete the <u>Contract Approval form</u> and submit it to: <u>contracts@upei.ca</u>.

If you are unsure whether a contract should be classified as Research or Operations, please do not hesitate to contact *Research Services* or the *Contracts and Insurance Officer* (See <u>Directory</u>).

1 UPEI has modified and adapted definitions that were initially posted by University of Toronto

1.2 Safeguarding Your Research

The <u>Government of Canada</u> recognizes that open and collaborative research is indispensable to pushing the boundaries of science and addressing complex economic and societal challenges. <u>Safeguarding Your Research</u> is a shared responsibility. Everyone has a part to play in protecting research, including inputs, knowledge, and products. By adequately safeguarding your research, you ensure that you and your research team maintain control of your research process and outputs, including who it is shared with, when, and under what circumstances.

Before beginning your research, complete the following training courses.

Introduction to Research Security*

By the end of this course, you will be able to:

- Explain why research security matters.
- Recognize risks, targeted areas, and understand common types of activities that could compromise research.
- o Identify potential risks to your work.
- o Develop mitigation tools and strategies to address risks in collaboration with institutional or expert support.

Cyber Security for Researchers*

By the end of this course, you will be able to:

- Define terms related to cyber security.
- o Recognize the risks and consequences that cyber threats can pose to you and your research.
- o Recognize who is trying to access your research.
- o Identify the motivations, activities, and methods of cyber threat actors.
- List the correct questions to ask when assessing your cyber risk.
- o Identify actions to improve your cyber security preparedness and protection.

1.3 Responsible Conduct of Research, Scholarly and Creative Work

Before commencing any research activities, the Responsible Conduct of Research, Scholarly and Creative Work policy for UPEI must be reviewed in detail. The search for knowledge is the essence of University scholarly work, and integrity is fundamental to that activity. It is important for the credibility of UPEI that the scholarly activities of University members are held in the highest regard and are seen as rigorous and scrupulously honest. This policy aims to set forth the standards for research integrity for all those involved in any capacity in research, scholarly and creative work at the University of Prince Edward Island. This policy applies to all members of the University involved in research in any capacity whatsoever. The policy also includes two procedural documents entitled "Procedures for Addressing Allegations of Misconduct in Scholarly Activity at UPEI" and "Procedures for Stewardship of Research Records and Materials at UPEI."

1.4 Equity, Diversity, and Inclusion (EDI)

As outlined in the <u>University of Prince Edward Island Equity, Diversity, and Inclusion (EDI) Strategy</u>, one of the five focus areas is the "Success of Faculty, Researchers and Staff". UPEI recognizes that meaningful incorporation of equity, diversity, and inclusion into Research is important for ensuring the high quality and relevance of Research and strengthening the research community at UPEI. Various guidelines and training for incorporating EDI into Research are available on my.upei.ca by searching for "Research and Equity, Diversity and Inclusion". The materials will also assist researchers in responding to equity, diversity, and inclusion requirements of grant applications.

^{*}Researchers must ensure a copy of each certificate is saved for submission with grant applications.

The University of Prince Edward Island is committed to creating an environment that respects and supports the dignity of people from various backgrounds and needs. All kinds of harassment and sexual violence are prohibited under the Fair Treatment Policy and the Sexual Violence Policy. **All University members have the right to engage in activities without fear of discrimination or harassment.**

The Fair Treatment & Sexual Violence Policy is available via: https://www.upei.ca/svpro/policies-procedures

For further information regarding the sexual violence policy or reporting sexual harassment, please contact **Eileen Conboy**, **Sexual Violence Prevention and Response Office (SV-PRO)** by email at econboy@upei.ca. For further information regarding the fair treatment policy or reporting discrimination or harassment, please contact the **Fair Treatment Advocate**; 902-566-6498 or by email at fairtreatment@hratlantic.ca.

Contact the Equity, Diversity, and Inclusion Officer (See Directory)

1.5 Indigenous Research

Indigenous research embraces the emotional, physical, spiritual, and intellectual ways of knowing. Indigenous worldviews, languages, and the interconnected relationships with the land and all beings are critical aspects of the research journey. As an academic community, UPEI realizes the role we must play in promoting an understanding of indigenous history and culture, and supporting respectful relationships, including research. UPEI recognizes that discussions in this era of truth and reconciliation will unveil difficult facts within our country's history. Committed to equity, diversity, inclusion, and Indigenization, the Advisor to the VPAR on Indigenous Affairs will work in collaboration with the UPEI campus community to facilitate a growing level of idea sharing, information and knowledge exchange, and a better understanding of Indigenous history and culture. *Please consult section 12.5 Research Ethics Board (REB) certification for additional information*.

Contact the Advisor to VPAR on Indigenous Affairs or the Research Compliance and Awards Coordinator (See Directory)

1.6 UPEI Researcher Portal

Research-related forms are submitted through the <u>UPEI Romeo Researcher Portal</u>. The online Portal was instituted to improve the processing associated with submitting, reviewing, and approving research-related grants, contracts, and certification forms.

This <u>video</u> provides a brief overview of the UPEI Researcher Portal. Using the UPEI Researcher Portal provides benefits that permit:

- All faculty researchers and staff online access to all their current Research-related certification and funding files.
- Access to all Research Services application forms, including UPEI internal forms associated with Research-related funding and certification applications, so researchers can easily access, complete, and submit the appropriate form/s within this password-protected site.
- Automated, electronic approval process for new submissions.

The following links provide step by step instructions for several processes in the Researcher Portal:

- How to log into the UPEI Researcher Portal
- How to complete and submit application* forms
- How to complete and submit event** forms (rev. December 2020)

- Instructions for Department Chairs and Faculty Deans for the review & approval of documents
- UPEI Researcher Portal Frequently Asked Questions (FAQ)

If you have any questions about the Researcher Portal, please do not hesitate to contact the *Research Services Liaison* (See <u>Directory</u>).

2. FUNDING OPPORTUNITIES

2.1 Finding Funding Sources

Research Services can help you identify potential funding sources for your research.

The "rrc" email distribution list sends information on funding opportunities to your mailbox.

- You may choose to receive notices in only the social sciences and humanities; natural sciences, health sciences, and engineering; or all messages.
- Contact the Research Grants Coordinator to be added to the list

The **Funding website** (https://data.upei.ca/funding) lists all funding opportunity information sent to the "rrc" list, as well as a listing of key internal and external deadlines.

Contact the Research Grants Coordinator (See Directory)

2.2 Internal Funding

For information on current internal funding sources, please visit the following link, or contact the Research Grants Coordinator: https://www.upei.ca/research-services/resources-and-tools/internal-funding

Researchers in the Faculty of Veterinary Medicine should contact the *Office of Graduate Studies and Research, AVC* for information on possible funding opportunities: https://www.upei.ca/avc/graduatestudies.

Contact the Research Grants Coordinator or the Administrative Assistant for the AVC Graduate Studies and Research Office if you have any questions (See <u>Directory</u>)

2.3 Student Awards

There are numerous scholarships and fellowships available to allow students to do research. Federal granting agencies support graduate awards and postdoctoral fellowships; some agencies also support undergraduate student researchers. Information on these awards may be found on the funder's website. Please note that many scholarships require internal adjudication. Calls for applications will be distributed to students and faculty.

Contact the Administrative Assistant of Graduate Studies or the Research Grants Coordinator (See Directory)

3. NEW FACULTY START-UP FUNDS

All new tenure-track faculty are provided with a minimum of \$2,500 of start-up funds. Some Faculties may provide additional funds. Faculty must complete the <u>Authorization to Transfer Funds form</u>. Applicants should include:

- Title for the Research/Scholarly Project
- A description of the research /scholarship to be undertaken. At a minimum, this should be 1 page in length outlining:
 - The specific research/scholarly activities that will be supported;
 - The anticipated results the research/scholarship is expected to produce (e.g., new knowledge, a manuscript/recording, new skills); and
 - o Budget for the usage of funds (e.g., how much for travel, how much for consultants, accompanists, equipment {name the equipment to be purchased}.
 - For funding amounts larger than \$2,500, the Dean for that funding must also provide a signature on the form.
 - Please email completed applications to: <u>researchservices@upei.ca.</u>

4. SIGNING AUTHORITY

All contractual obligations of the University must be signed in accordance with the <u>Signing Authority Policy</u>. The following table provides an outline of what contractual obligations specific positions can sign.

POSITION	CONTRACTUAL OBLIGATIONS	POLICY REF
One Official Signing Officer	Contracts valued at up to \$100,000	s. 5.1
Two Official Signing Officers	Contracts valued over \$100,000	s. 5.5

Per Section 4.1 of the Signing Authority Policy, the Official Signing Officers positions are defined as;

- Chair of the Board of Governors
- President
- Vice-President, Administration and Finance
- Vice-President, Academic and Research
- Comptroller

All research agreements routed through the UPEI Researcher Portal will ensure contracts align to the Signing Authority Policy.

5. FUNDING PROPOSAL & BUDGET DEVELOPMENT

5.1 Proposal Development

The proposal development is the applicant's responsibility, but Research Services can support the process by;

- Providing information on possible funding sources.
- Providing advice regarding sponsor guidelines and instructions.
- Reviewing draft applications to assess compliance with sponsor instructions, university policy, eligibility, and selection criteria, and recommend adjustments.
- Providing guidance on proposal budget development.
- Drafting institutional elements of proposals (if applicable).
- Providing technical assistance with electronic forms.
- Developing tools, university agreement templates, and processes for effective proposal development.
- Providing feedback on proposal

5.2 Preparing a Research Budget Proposal

In preparing a budget that accompanies a contract proposal or award application, it is important to consider both the direct and indirect costs of Research.

5.2.1 Direct Costs

It is important to identify and budget for all direct costs. The eligibility of direct costs may differ depending on the **project sponsor(s).** The acquisition of all goods and services should adhere to the <u>UPEI's Procurement Policy</u>. For more information, please consult with Procurement Services. Some examples of direct costs include:

- Salaries must be within the range for the appropriate University position classifications.
- Allowances must be made for annual salary increases. Please consult with the Human Resources Department to determine reasonable estimates; fringe benefits;
- Please consult with the Human Resources Department or visit http://hr.upei.ca/ for more information on determining benefit estimates.
- **Professional/consultant fees** will require a separate quote or contract to be in place with the sub-contractor before payment (i.e., Fee for Service, Research Agreement). A Purchase Requisition is also required to create a Purchase Order for the sub-contractor.
- Contact the Contracts and Funding Officer, <u>researchcontracts@upei.ca</u>, for more information on the preparation of sub-agreements.
- Materials & Supplies
- Equipment UPEI Procurement Policy and Procedures must be followed
- **Travel** The sponsoring agency may have guidelines or limits for travel costs. Refer to <u>UPEI's Travel Expenses Policy</u> for University regulations for eligible and ineligible travel costs.
- **Renovations & Alterations** Before including costs, Facilities Management must be contacted to ensure a) the required work is possible and b) that a reasonable cost estimate is used in the application.
- The sponsoring agency may have guidelines or limits for telephone costs. In addition, please refer to the UPEI's
 <u>Wireless Communications Devices</u> policy for guidelines regarding the use and cost eligibility of wireless
 communication devices.

5.2.2 In-Kind Costs

Check the **sponsor guidelines** to determine whether in-kind contributions are allowed and what the reporting requirements are. Check with Research Services or Research Accounting if you have any questions about how to calculate and record in-kind contributions.

5.2.3 Indirect Costs

It is a UPEI requirement that an appropriate provision is made for indirect costs. Indirect costs are costs that are not readily apparent but are real. They include the costs associated with the **operation and maintenance of facilities**, including building depreciation, library expenses, space, utilities, payroll, accounting, and other services.

As outlined in the <u>UPEI Contract Research Policy</u>, indirect costs are charged at 40% of direct costs, except:

- Indirect costs are not charged on student stipends, salary, or benefits paid to UPEI students.
- Indirect costs are not charged on equipment that the University will retain.

- Indirect costs are reduced to a 10% rate on travel costs.
- Indirect costs are reduced to a 20% rate for registered charitable organizations.
- Sponsors and/or funding agencies may place restrictions on the level of indirect costs charged.
- All indirect cost rates that deviate from University policies must be approved by the appropriate University Dean and Vice President Academic and Research (VPAR).

For more information on UPEI indirect research cost policies, please refer to the Contract Research Policy.

5.2.4 HST Impacts on Research

Although there is no HST charged on research salaries and wages, many other goods and services purchased for research activities are subject to HST. HST must be considered when estimating costs of Research. Many sponsors and funding agencies typically do not require budgets to break out the applicable taxes. It is important to ensure that the impact of taxes on research goods and services is accounted for within the budgeted cost categories.

5.2.5 Helpful University Policy Links

The following University policies will provide necessary clarifications on various items and processes throughout your budget preparation and project execution. These policies can all be found on <u>UPEI's Policy Page</u>:

- Travel Expenses Policy
- Contract Research Policy
- Procurement Policy
- Student Hiring and Employment
- Spending Authority Policy

Contact Research Accounting, the Research Grants Coordinator, the Manager of Research Services, and/or the Administrative Assistant for Facilities Management (See <u>Directory</u>)

6. GRANT OR CONTRACT

6.1 What is the difference between a Grant and a Contract?

There are unique forms and processes on the UPEI Researcher Portal for grants compared to contracts. This section outlines the main differences between a grant and a contract to ensure the application is submitted correctly.

6.2 Research Grants

A Research **Grant** is financial support for an individual or group of individuals to do research in a particular subject area or field. Although the research area may be defined, there are usually no conditions about the research directions.

Usually, in a grant;

- There is no direct or indirect remuneration to the principal investigator(s).
- The objectives are defined generally not specifically.
- There are no limitations on publication.
- Results do not get transferred to the funder (a final report may be requested); and
- Payment is usually made in advance of expenditures, without "deliverables".

6.3 Research Contracts

A Research **Contract** is a legal agreement between two parties to carry out a specific research project with specific stipulations and conditions. UPEI's Contract Research Policy can be found here. There are several types of research contract arrangements depending on the scope and nature of the project and deliverables. The following are a few examples of research contract partnerships.

- **Collaborative Research Agreements (CRAs)** facilitates collaborative Research of mutual interest to UPEI, UPEI researcher(s), and the partnering institution(s), in which project results may be shared or have clauses specific to the ownership and management of the intellectual property.
- **Research Service Agreements (RSAs)** are contracts in which UPEI will perform work of a routine nature such as analytical, testing, or other services requiring little or no original intellectual input.
- **Fee for Service Contracts (FFS)** are contracts in which UPEI contracts with others to perform work of a routine nature such as analytical, testing, or other services requiring little or no original intellectual input.
- Material Transfer Agreements (MTAs) are used when transferring materials between organizations.
- **Memorandum of Understandings (MOUs)** are used to formalize general understandings and alignment of intentions between parties. MOUs should not be used to try and arrange legally binding commitments.
- Non-Disclosure Agreements (NDAs) or Confidentiality Agreements attempt to ensure confidential information is not
 disclosed to outside parties. A Non-Disclosure Agreement should always be in place before engaging in R&D
 discussions with outside parties.

There are UPEI templates for these agreements which can be found here. Please reach out for assistance.

Contact the Manager of Research Services, Contracts & Funding Officer, or the Business Development Officers (See <u>Directory</u>)

6.3.1 Contract Process Flow

The process to evaluate a research contract is outlined below with a flow chart located in Figure A1 (See Appendix).

Legend:

PI = Principal Investigator

RSL = Research Services Liaison

C&FO = *Contracts* and *Funding Officer*

IO = Contracts and Insurance Officer

OCII = Office of Commercialization, Industry, and Innovation

ORS = Office of Research Services

RCC = Research Compliance Coordinator

BSO = Biosafety Officer

FA = Faculty Association

VPAF = Vice-President Administration and Finance

VPAR = Vice-President Academic and Research

AVPR = Associate Vice-President Research

- 1. PI submits a budget file and contract into Romeo Portal*: If the PI requests assistance in the first use of the Portal, the RSL arranges a meeting to guide them through submitting a contract.
 - * Terms of the contract initially negotiated between external partner and ORS Manager/AVPR, not PI.
 - a. Chair / Dean e-approval within the Portal.

- b. RSL routes to: i) OCII if partner contract; ii) RCC; iii) BSO if >\$100k.
- c. RSL routes to Step 3 if the contract follows the template.

2. C&FO reviews contracts with unusual terms and conditions (not following the template).

- a. If required, review terms and conditions with PI, and return to *Step 1* if basic issues must be addressed before further review.
- b. If required, C&FO routes to the appropriate office(s) for review/approval: i) IO for insurance variations; ii) Access to Information and Privacy Office for privacy variations; iii) external counsel for variations to the template.

3. RSL reviews contracts with template terms and conditions.

- a. Contract sent simultaneously to appropriate offices for review/approval: i) FA for contracts flagged by RSL, OCII, or C&FO; ii) ORS Manager; iii) HR paper copy (fee for services, conflict of interest).
- b. If problematic areas remain, proceed to Step 4; otherwise, go to Step 5.

4. RSL collects all reviews and discusses problematic areas (if any) with ORS Manager/AVPR.

- a. If a risk management or other plan can manage problematic terms, then RSL works with PI to develop an appropriate plan for subsequent review/approval by ORS Manager/AVPR.
- b. If problematic areas remain unacceptable, then ORS Manager/AVPR negotiates revisions to the contract with the external partner.

5. Final review/approval.

- a. AVPR review/approval, followed by VPAR/VPAF review and signatures (if required). Return copies to RSL to scan and enter into Romeo.
- b. RSL routes to PI for counter signature (if not already obtained.)
- c. PI returns a fully executed version to RSL to enter in Romeo.
- d. RSL routes to Research Accounting (once compliance is granted) for account opening. Research Accounting notifies PI of account opening.
- e. Otherwise, if the contract is not approved, AVPR returns to the Dean/PI with reasons in writing.

7. GRANT PROPOSAL SUBMISSION

If you are applying for External Grant Funding, these are the basic steps to follow:

- Advise the Research Grants Coordinator of:
 - Your intention to submit a funding application.
 - Name of the funder and program (example: MITACS Accelerate)
 - The deadline for submission.
- For optional internal review (clarity, completeness, compliance with agency requirements, etc.), provide a draft of submission to the Research Grants Coordinator no later than 10 working days before the funder's deadline.
- Review the <u>Signature and Deadline Process for Grant Applications</u>.
- Submit on the UPEI Researcher Portal no less than 5 working days prior to the funder's deadline (see process above for non-standard deadlines). Further details about the forms and process can be found here: http://www.upei.ca/research/forms

For greater clarity, the Signatures on Grant Applications in the UPEI Researcher Portal have this meaning:

Approval of *UPEI Principal Investigator/Lead* (PI) indicates acceptance and willingness to carry out the work as described in the proposal, in accord with the various regulations governing such work and within the established budget of the proposal. All research activities will be undertaken in accordance with the policies and procedures of the University of Prince Edward Island and the terms and conditions of the Sponsor, as approved by the designated signing officer of the University. The PI also accepts responsibility for any over expenditure on the award and for reporting any changes or delays

in the research or research expenditures. It is the responsibility of the PI to complete and/or assist the University in completing all reporting required by the sponsor on time.

Approval of the *Chair and Dean or Designated Authority* indicate awareness of the research project, and acknowledgement that the academic unit/ faculty/school will be able to accommodate the project if funded (including any space, facilities, and personnel requirements). Approval of the Dean also indicates acceptance of the proposed overhead rate and acknowledges that any variance in overhead rates applies first to that component distributed to the Faculty/School.

Signature of the *Vice President, Academic and Research* indicates that the University will administer the project in accordance with the terms and conditions of the agreement, the sponsor's guidelines, as well as the University's policies, practices, and guidelines, and indicates approval of the overhead rate to be used.

Contact the Research Grants Coordinator (See Directory)

7.1 Grant Proposal Flowchart

An overview of the grant proposal process is described below and in *Figure 1*.

- As the Principal Investigator for the research project, identify;
 - o 1. grant opportunity, 2. funding criteria, and 3. application date.
- Contact the Research Grants Coordinator to inform them of;
 - 1. intention to apply, 2. funding agency & program, and 3. deadline(s)
- While adhering to the UPEI Contract Research Policy and UPEI Overhead Policy, create a detailed budget for the use of the grant. The research grant application must be completed in accordance with the specific granting criteria:
- The complete grant application must be uploaded to the UPEI Researcher Portal:
- An optional review by the Research Grants Coordinator can be provided, given more than 10 business days before
 the application deadline. This review concerns: clarity of the application, compliance with funding criteria, and
 advice to help secure grant funding:
- The documentation is processed through UPEI, time depending on;
 - 1. required signatures, 2. other applications being processed, 3. compliance with research criteria, and/or 4. budgetary concerns.
- The project must be approved within the UPEI Researcher Portal by;
 - o 1. Department Chair, 2. Faculty Dean, and 3. UPEI Signing Authority.
- After receiving confirmation that the application has been approved by UPEI, the application can then be submitted to the funding agency:
- If funding is secured, the Award Letter from the funding agency confirms the grant specifications (funding amounts, duration of funding, reporting):
- Additional documentation (such as compliance certification, updated budget, signed agreement, etc.) may be required to allow for a Research Account to be created. When all the required documentation is in place, Research Services will notify Research Accounting to open the Research Account:
- Only after confirmation of the above criteria by the Office of Research Services, the research may commence.

Figure A2 displays the administrative roadmap, starting from hearing about a grant opportunity and leading up to having access to your grant funding and starting research (See <u>Appendix</u>).

8. RESEARCH CONTRACT DEVELOPMENT

Research contracts are between the University and the Sponsor(s), falling under the <u>Contract Research Policy</u>. Research Services will assist you in developing and negotiating your contract.

- If you are in discussions with a research funding sponsor (e.g., industry, government, NGO, etc.) on a potential research project or if you have been provided with a contract by a research sponsor, contact both UPEI's Office of Commercialization, Industry, and Innovation (OCII), and Contracts and Funding Officer.
- Again, refer to the Research Services website for complete instruction on all processes on the Researcher Portal.
 https://www.upei.ca/research-services/forms
- Research Services will work with you and OCII (UPEI's technology transfer arm) to address issues related to IP, commercialization, publication, and freedom to operate if they arise.
- Contracts for review and approval must be submitted online to the Researcher Portal at: https://upei.researchservicesoffice.com/Romeo.Researcher/
- Once the contract has been finalized and executed then researchers will be notified. Fully executed contracts will be retained and accessible to the researcher in the UPEI Researcher Portal.
- It is important to note your account cannot be activated, and you cannot begin to spend the funds until the contract has been fully executed. Additional constraints for release of funding and initiation of the research/work are conditional on appropriate compliance and certification requirements (See Section 9).

Research Services will notify Research Accounting that the account opening process should be initiated when all the above requirements have been met.

Contact the *Contracts and Funding Officer*, the *Manager of Research Services*, and/or the *Business Development Officers* (See <u>Directory</u>)

9. COMPLIANCE AND CERTIFICATION

9.1 Animal Care Committee (ACC) Certification

If your research involves animals, then it requires ACC review and approval. The ACC guidelines and Animal Utilization Protocol (AUP) forms can be found at: https://www.upei.ca/research-services/research-certifications/animal-care

- The Animal Care Committee meets monthly except for the month of December. AUP forms are due on the first Friday of every month for review at the meeting held at the end of the month.
 - Applications, including new submissions, amendments, and renewals must be submitted through the Research Portal on or before the submission deadline.
 - o The ACC Coordinator will contact you if additional information or clarification is required.
 - If your project has not been peer-reviewed, it will require review for scientific merit prior to review by the ACC.
 This review is coordinated through the ACC Coordinator.
- Your completed AUP form will be reviewed at the monthly ACC meeting, and within 5 days after the meeting, you will receive the ACC's response from the Chair of the ACC.
- If revisions are requested, they should be submitted as soon as possible and will be considered at the next monthly ACC meeting.
 - o If revisions are not received within 3 months, the application will be closed, and a new application must be submitted.
- Research can only begin once you have received a Certificate of Approval from the ACC Chair by email.
- Approval is for one year. An AUP may be renewed no more than three (3) times before a new AUP must be submitted.

Contact the ACC Chair, Animal Care Committee, and/or the University Veterinarian (See Directory)

9.2 Institutional Biosafety Certification

If your Research involves biohazardous material, then it requires Institutional Biosafety Committee review and approval.

<u>Biohazardous material</u> is any biological material which is potentially harmful to humans, animals, plants and/or the environment. These include but are not limited to any organism [bacteria, mycoplasma, viruses, parasites (both metazoan and protozoan), fungi, algae, and human blood, cells, body fluids and tissues] or their toxic metabolites believed to be potentially harmful to humans, animals, or plants. Certain types of nucleic acids, such as DNA derived from pathogenic organisms and human oncogenes, are also considered to be biohazardous materials.

The Institutional Biosafety Committee (IBC) guidelines can be found at: https://www.upei.ca/office-vice- president-administration-and-finance/health-safety-and-environment/biosafety

The IBC meets monthly, and the application submission date is the last Friday of each month.

- Applications, including new submissions, amendments, and renewals must be submitted through the Research Portal on or before the submission deadline.
- The IBC Coordinator will contact you if additional information or clarification is required.
- The application will be reviewed by the IBC at their next meeting.
- If revisions are requested, they should be submitted as soon as possible and will be considered at the next monthly IBC meeting.
 - If the revisions are not received within 3 months, the application will be closed, and a new application must be submitted.
- Research can only begin after you have received your IBC approval permit. A copy of the permit will be sent to you by email.
- Approval is for two years, and a project may be renewed only once before a new application must be submitted.

Contact the Research Compliance and Awards Coordinator and/or the Biosafety Officer (See Directory)

9.3 Environmental Assessment

For any Research involving field work or Research that could have an adverse effect on the environment, sponsors will request clearance before the Research can proceed. The <u>Canadian Environmental Assessment Act (CEAA)</u> Overview of the Impact Assessment Act must be reviewed and followed as part of a proposal. The Impact Assessment is a tool that will assess the positive and negative environmental, economic, health, and social effects of proposed projects. It also outlines the process for assessing the impacts of major projects and projects carried out on federal lands or outside of Canada.

Projects that are subject to the Act include, but are not limited to: renewable energy, oil, and gas, linear and transportation related, marine and freshwater, mining, nuclear, hazardous waste, and federal lands and protected areas. Based on knowledge and awareness of the Act in relation to your proposal, the sponsor will determine whether a "screening' will be required in accordance with CEAA and will work with the investigator and the University to see that the necessary steps are taken and, if deemed appropriate the Research is given the 'green' light.

Whether research proposals are subject to the CEAA is determined in two ways. Either they involve undertakings in relation to physical work (Part 1), or they relate to a proposed activity not related to a physical work that is subject to the Act (Part 2).

- Please follow this link to view the Overview of the Impact Assessment Act (CEAA):
 https://www.canada.ca/content/dam/iaac-acei/documents/mandate/president-transition-book-2019/overview-impact-assessment-act.pdf
- A description of work requiring assessment can be found at: http://www.nserc-crsng.gc.ca/OnlineServices-ServicesEnLigne/instructions/101/e.asp?prog=dg#EA
- Submission forms that may be used for Environmental Assessment can be found in Appendix A and Appendix B of the NSERC Form 101.

9.4 Radiation Safety

The Radiation Safety Officer has general responsibility for ensuring that the use of radioactive materials at the University conforms to applicable standards. UPEI radiation safety manuals are available through the Radiation Safety Office. The online version is available here: https://files.upei.ca/healthandsafety/radiation_safety_manual.pdf

A radioisotope permit, obtainable through the University Radiation Safety Officer, and approved by the Radiation Safety Committee, is required for any work involving radioactive materials. Radioisotope User Permit Holders have the responsibility to ensure that thermoluminescent dosimeters are utilized as part of monitoring. Review the Radiation Safety Manual for the details of the responsibilities.

Contact the Radiation Safety Officer to verify that the area <u>and</u> materials to be used have been certified for that use and follow the guidelines as outlined by the <u>Canadian Nuclear Safety Commission</u>

Note: there is a multi-user radioisotope laboratory located in the AVC, for users who do not have approved spaces within their own laboratories.

Take the Radiation Safety training course, available several times a year. This course will educate all permit holders and users on radioactive material handling techniques and inventory management strategies. Radiation Safety training is available to all staff and students as required. Contact the RSO for information on when the next available session is scheduled. Refresher training is required every 5 years.

Contact the Radiation Safety Officer (See Directory)

9.5 Research Ethics Board (REB) Certification

If your research involves human participants, then it requires REB Review and Approval.

The committee meets monthly, and the application submission date is the last Friday of each month.

- Applications that involve more than minimal risk to the participants must be submitted through the Research Portal on or before the submission deadline. They will be reviewed by all members of the REB at their next meeting.
- Applications, including new submissions, renewals and amendments that do not involve more than minimal risk to the research participants may be submitted at any time for review.
- The REB Coordinator will reach out and return the application to you if additional information clarification is required.
- If revisions are requested, they should be submitted as soon as possible.
 - o If revisions are not received within 6 months, the application will be closed, and a new application must be submitted.
- Research can only begin once you have received your REB approval permit by email.

 Approval is for one year and a project may be renewed no more than five times before a new application must be submitted.

Contact the Research Compliance and Awards Coordinator (See Directory)

10. RESEARCH ACCOUNTING

10.1 Opening a New Research Account

New research accounts are requested through Research Services. To have an account established, take the following steps.

- If you are the recipient of grant funding, provide your Notice of Award to Research Services.
- If you receive funding from industry and they send you a contract, please coordinate with Office of Commercialization, Industry, and Innovation (OCII) to review the contract. Once reviewed, please submit the contract to the UPEI Researcher Portal. In most cases, you will have collaborated with OCII already during the contract development, but sometimes industry will send the contract directly to the researcher.
- If compliance certification (Biohazards, Animal Care, Human Ethics, or Radiation Safety) is required, please ensure you have applied to the appropriate committee for approval. NOTE: Accounts cannot be opened if there are any pending certification requirements. However, partial release of funding may be obtained by submitting a Request for Release of Funds through the Researcher Portal.
- Once all documentation is in place, the account opening documentation will be forwarded by Research Services to Research Accounting.
- Research Accounting will notify you via email when your new account has been opened. The email will contain the
 project number so you can view the budget in my.upei.ca. You will also need to indicate to Research Accounting
 who has signing authority on your research account.

Contact the Research Grants Coordinator, the Research Compliance and Awards Coordinator, the Manager of Research Services, and/or Research Accounting (See Directory)

11. RESEARCH ACTIVITIES & REPORTS

Whether you receive funding from a grant or a contract, it is important to read and understand your reporting requirements. For example, you should be aware if/when written reports must be submitted and whether the next payment is conditional upon receiving a report.

Modifying your research activities and budget without prior approval from your sponsor could result in your funding being cancelled. Prior to making any modifications to your research activities, please contact Research Services to discuss what, if any, modifications are permitted.

12. RESEARCH ACCOUNT MANAGEMENT

12.1 Hiring Research Personnel

- All personnel hired with research funding are employees of UPEI (please see Section 15.2 below for student hiring).
- You will need to consult with the Human Resources (HR) Department prior to initiating any hiring. HR has detailed information available on the my.upei.ca portal. (Go to Menu® Administrative Services, Human Resources)

- New employees are not to start work until they have signed their letter of offer.
- Any request to hire from research funding needs to be vetted by Research Accounting prior to posting, which is completed through the form noted below.
- Complete a Staffing Authorization Request (SAR) Research and Staff for new positions. This is available on my.upei.ca (search for Staffing Authorization Request).
 - Obtain required signatures.
 - Send the signed form to HR.
- Following confirmation that you have sufficient funds in your research account and the position is an eligible expense, the Research Staffing Authorization Form, including a copy of the job posting (hard copy is attached to the SAR) must be sent to HR. An electronic copy of the job posting must also be sent to HR.
- When Personnel Transaction Forms (PTF) are completed for new or existing employees, the PTF must be signed by the person with spending authority on the account and sent to HR. HR will forward to Research Accounting for their approval (Note: PTF are hard copy forms only available for pickup at HR office).
- You must ensure the end date of an employee's contract is within the term of your grant or contract. For example, if you have a three-year grant with funding approved in one-year increments pending satisfactory performance, you can only hire personnel for one-year contracts.
- Useful University Policy Links:
 - Staff Recruitment and Selection Policy (Find under UPEI Policies)
 - Moving and Relocation Expenses
- Hiring of Academic Foreign Nationals: Human Resources is available to assist in the immigration requirements if a foreign national has been hired/being considered for a position.
- <u>Postdoctoral Fellows</u> please review the UPEI policy related to Postdoctoral Fellows.

Contact the Human Resources Officer (See Directory)

12.2 Hiring Students for Research

- Review policy, if applicable: Student Hiring and Employment
- Complete the Student Staffing and Authorization Request (SSAR) available on my.upei.ca.
 - o You must ensure the end date of a student's stipend is within the term of your grant or contract.
- Student Rates of Pay: Please search on the my.upei.ca HR site as this is updated frequently.
- **Student Stipends**: If you are supporting a student on your research project through a stipend payment(s), an Award Stipend Transaction Form must be filled out.

12.3 Transferring Funds to a Co-Investigator at Another Institution

The transfer of funds is coordinated through Research Services. Template funding transfer agreements are available for some funding agencies (e.g., Tri-council).

Contact the Research Services Liaison (See Directory).

12.4 Research Fee for Service Contracts

• If your grant or contract allows you to hire a person (excluding employees or students) or a business to perform work or service, you must have a Fee for Service (FFS) Contract in place with the person or business.

- UPEI Template FFS Contracts can be found on the UPEI website;
 https://www.upei.ca/office-vice- president-administration-and-finance/contracts-and-insurance/risk-management/fee-for-service-templates
- Assistance in the development of FFS Contract can be obtained from the Contracts and Funding Officer.
- Purchasing services must follow the UPEI Procurement Policy and Procedures.
- FFS contracts must be submitted in the UPEI Researcher Portal for review and approval. The Fee for Service Event Form should be used in these instances.
- Once the contract has been fully executed (signed by UPEI and the vendor), you must submit a purchase requisition through your my.upei.ca portal.

12.5 Buying Material, Supplies, or Equipment

- If your grant or contract allows you to purchase lab supplies, equipment, or other materials, you must follow the <u>UPEI Procurement Policy and procedures</u>
- The purchase of equipment requires an additional form to be completed for Facilities that outlines the installation and infrastructure requirements to put into place and service your new equipment (wiring, exhaust, strength, etc.)
- Depending on the price, you will require competitive bids.

12.6 Monitoring Your Account Balance

- You are required by UPEI and your sponsor to spend your research funds within the guidelines provided. If you have any questions about the guidelines, contact Research Services or Research Accounting.
- You are responsible for any overspending on your research account; it is important to track your expenditures.
- Training in Colleague is provided through a series of videos found on my.upei.ca. Go to the Self- Service Help menu to access these videos. The videos are also linked on YouTube.

12.7 Residual Funds

Once your grant or contract ends, your account will be closed. If there is money remaining that you wish to use then you may request access to it by submitting a Research Account Modification Form on the UPEI Researcher Portal. **This request must be submitted before the end date of the project.** Research Services will determine from your sponsor agreement if you are eligible to have access to residual funds.

If the funds do not need to be returned to the sponsor, your request will be reviewed by the Vice President Academic and Research. If approved, you may receive **up to a one-year extension**, or a new account may be opened for a specific time period for research purposes only. If you have a deficit balance at the completion of your research, post award research administration processes can be discussed with the Research Services Liaison and Research Accounting.

12.8 Financial Reports

Your financial reports are prepared by the staff in Research Accounting and approved by the Financial Services management prior to submission to your sponsor. The financial reporting requirements are usually outlined in your grant or contract agreement.

Contact the Contracts and Funding Officer and/or Research Accounting (See Directory)

13. RESEARCH PROMOTION

13.1 Getting the Word Out

Research Services understands the importance of promoting your Research. UPEI Marketing and Communications can help you get the word out. A press release is often the best way to announce news. We enjoy a great relationship with *The Guardian* and CBC PEI. A press release is a great trigger for a story in the paper or a feature on the radio or TV.

13.2 Direct Pitches

Often, the best way to get into the media is by direct pitches to individual reporters. Talk to our Communications Officer if you have a story that you would like featured in the media. They can help you focus your story, select journalists who might be interested, and make the pitch.

Contact the Communications Officer (See Directory)

14. WORKING WITH THE MEDIA

At some point in your career a reporter may call and ask you to speak to the media. Whether the reporter is seeking background on an in-depth examination of a science or societal trend, a sound bite for breaking news coverage, or is focusing an unwanted spotlight, it is in your best interest to be prepared. In addition to the tips below, UPEI's Research Communication Officer can help you work with the media. Here are Ten Tips for Handling Inquiries & Interviews:

- 1. <u>Know who is calling and why.</u> Get the reporter's name and media outlet. Find out why the reporter asked you for an interview and try to get a sense of his or her focus or angle. If you feel you are not the best person to address the subject, say so.
- 2. <u>Buy time to prepare.</u> Confirm the reporter's deadline. Set a time to speak within that time frame to allow you to gather your thoughts. Resist the temptation to wing it.
- 3. <u>Know the audience.</u> With the reporter's outlet, angle, and audience in mind, consider both your message and the best way to convey it to that audience.
- 4. <u>Know your message and stay on it.</u> Do not leave yourself open to misinterpretation. Create a headline in advance and make it the lead point. Think of different ways to communicate that point and reinforce it in every response.
- 5. <u>Avoid jargon and technical language.</u> You are not talking to your peers. Overuse of specialized terms will obscure your message and lose the audience. If a term is essential, use it and then define it in lay terms.
- 6. <u>Respect the reporter.</u> Never talk down or become argumentative. If a reporter is misinformed or cites incorrect facts, remember you are the expert and politely correct them. Ensure you pronounce the reporter's name correctly.
- 7. <u>Avoid "no comment."</u> This classic retort makes you sound as if you're trying to hide something. If you cannot answer, explain why.
- 8. <u>Do not speculate.</u> Speculative answers may come back to haunt you. If you cannot answer a question, say so and promise to get back to the reporter with information. Hypothetical questions are notorious minefields. Do not be enticed to respond to what-if scenarios.
- 9. <u>If it shouldn't be in the news, don't say it.</u> "Off the record" is a myth. Always be aware when microphones, cameras, or tape recorders are present.
- 10. Appearance matters on camera. Dress simply and conservatively. Sit straight. Be mindful of your body language.

Contact the Communications Officer (See Directory)

15. TECHNOLOGY TRANSFER

Formerly known as Synapse, the Office of Commercialization, Industry, and Innovation (OCII) provides expertise and knowledge to University of Prince Edward Island (UPEI) Faculty, Students, and Staff in support of Research Partnership Development, Intellectual Property (IP) protection, and Commercialization of products, processes, services, and insights that can provide practical social and economic benefit beyond the university environment. OCII is the bridge between industry and researchers at UPEI. OCII works with researchers to transform their innovative ideas into commercial products and business opportunities.

While Universities have a broad and far-reaching economic impact, three key pathways exist through which commercialization and industry partnership activities support the creation of economic impact from UPEI Ideas, Innovations, and Expertise. By facilitating opportunities for UPEI students, researchers, and staff to:

- Help support the growth & success of existing and new partners by addressing and solving key challenges.
- Co-develop new products/services along with partners.
- Develop new products and services leading to the creation of new ventures.

In addition to the core functions of commercialization, industry partnership, and innovation support, the OCII supports a university-wide approach and strategy to economic development and acts as a champion for innovation and entrepreneurship at UPEI. For external and internal clients OCII is the first point of contact to develop partnerships with UPEI or commercialize UPEI ideas.

OCII works closely with other organizations that are focused on innovation and economic development in the region and across Canada to access innovation support funding to "Move Ideas Forward "! OCII supports its clients through a variety of services, programs, advice, and referrals according to their needs.

The OCII team supports Technology and Knowledge transfer through the following key activities:

- By acting as liaison between industry, as well as other external partners, and UPEI to establish new partnerships and collaborations regarding Research, development, and commercialization activities
- By working with research teams to identify Intellectual Property that has sufficient commercial value to engage in commercialization practices. This includes the creation and filing of patents with appropriate agents and regulators, conducting market intelligence, and development of competitive strategies for technologies, projects, and proposals
- Identification of licensing opportunities for Intellectual Property commercialization and/or advancement
- By supporting the creation of new for-profit companies

Follow OCII on <u>Twitter</u> & <u>LinkedIn</u>, and learn more at <u>https://www.upei.ca/research-services/office-of-commercialization-industry-and-innovation</u>

Contact the Business Development Officers (See Directory)

16. DIRECTORY

The information in this directory may not always be up to date, thus; position titles, employees in the positions, and office locations are all subject to change. More updated data and information may be available from the organizational charts or the UPEI directory. Linked below are the organizational charts and UPEI directory.

Organizational Chart: Login to my.upei.ca, and search Organizational Charts

UPEI Staff & Faculty Directory: https://www.upei.ca/directory

Office of Research Services (ORS)					
Leslie Cudmore	Research Grants Coordinator	902-566-0709	lcudmore@upei.ca	Kelley 109	
Jordan Minx	Research Services Liaison	902-566-0843	jminx@upei.ca	Kelley 112	
Stephanie Palmer	Research Compliance Coordinator	902-620-5104	scpalmer@upei.ca	Kelley 110	
Maria Steele	Manager of Research Services	902-566-6479	mlsteele@upei.ca	Kelley 105A	
	Office of Commercialization, Industry, a	nd Innovation (OCII)			
Sandra LeClair	Business Development Officer	902-620-5409	sleeleclair@upei.ca	Kelley 112	
Rebecca Mok	Business Development Officer	902-620-5032	rsmok@upei.ca	Kelley 112	
Marc Richard	Senior Business Development Officer	902-894-2877	mrichard@upei.ca	Kelley 112	
Associate Vice President Research (AVPR) and Graduate Studies					
Colleen Gallant	Administrative Assistant	902-620-5120	cgallant@upei.ca	Kelley 101	
Kendra Mellish	Graduate Programs Officer	902-620-5316	kmellish@upei.ca	Kelley 104A	
Marva Sweeney-Nixon	AVPR and Dean of Graduate Studies	902-620-5111	msweeney@upei.ca	Kelley 207	
Susie Zavala	Program Manager, Master's in CleanTech Leadership		szavala@upei.ca	Kelley 101	
Vice President Academic, and Research (VPAR)					
Corrine Chappell	Advisor to VPAR on Indigenous Affairs	902-620-5021	cchappell@upei.ca	Kelley 312	
Yuqin Gong	Manager, Institutional Research	902-566-0361	ygong@upei.ca	Kelley 228	
Olivia Lantz	Faculty Relations Officer	902-566-0945	olantz@upei.ca	Kelley 205B	
Donna Lawless	Administrative Assistant	902-566-0637	dlawless@upei.ca	Kelley 236	
Charlotte McCardle	Director, Strategic Planning	902-566-0535	cmccardle@upei.ca	Kelley 230	
Greg Naterer	Vice President Academic & Research	902-566-0561	gnaterer@upei.ca	Kelley 235	

Research Accounting					
Melissa Dawn MacLaren	Assistant Manager, Research	902-566-0456	mdmaclaren@upei.ca	Kelley 127	
Janice Murphy	Contracts and Funding Officer	902-894-2818	janmurphy@upei.ca	Kelley 104	
Deidre Smith	Manager, Financial Services	902-566-6000	dasmith@upei.ca	Kelley 129	
Gaylene Joy Willis	Research Accounting Clerk	902-566-0671	gwillis@upei.ca	Kelley 128	
	Research Compliance				
Debra MacDonald	Radiation Safety Officer	902-566-0635	debmacdonald@upei.ca	AVC 2338A	
Stephanie Palmer	Research Compliance Coordinator	902-620-5104	scpalmer@upei.ca	Kelley 231	
Melissa Perry	Animal Care Committee Administrator	902-566-0973	mperry@upei.ca	AVC 2329	
Rhoda Speare	Biosafety Officer	902-566-5071	rspeare@upei.ca	Kelley 310	
Equity, Diversity, and Inclusion					
Patti Wheatley	Chief Access to Information and Privacy Officer	902-894-2840	pjwheatley@upei.ca	Kelley 305	
	AVC Graduate Studies and Resea	rch Office			
Chelsea Martin	Interim Associate Dean, Graduate Studies & Research	902-620-5168	ckmartin@upei.ca	AVC 420N	
Rosemary McIver	Administrative Assistant	902-566-0542	mciver@upei.ca	AVC 2351A	
	Animal Care Committee (A	ACC)			
Jonathan Spears	University Veterinarian	902-620-5026	jspears@upei.ca	AVC 2318A	
Shona Whyte	Chair, ACC	902-628-4336	swhyte@upei.ca	AVC 3314A	
	Research Communicatio	ns			
Anna MacDonald	Communications Officer	902-620- 0949	amacdonald@upei.ca	MCDH 119	
Human Resources					
Monique Geurts	Human Resources Officer	902-566-0515	mgeurts@upei.ca	Kelley 148	
Facilities Management					
Jackie Marie MacPhail	Administrative Assistant	902-566-6034	jmacphail@upei.ca	CUB 207	
Maggie Shand	Administrative Assistant	902-566-0471	mshand@upei.ca	CUB 221	

17. APPENDIX * Terms of the contract initially negotiated between external partner and ORS Manager / AVPR, not PI 1. PI submits budget & b) RSL routes to c) RSL routes to Step 3 if the a) Chair / contract into Romeo Portal*. If contract follows the template. Dean e-approval within required, RSL guides them i) OCII if partner contract the Portal. through submitting the files. ii) RCC iii) BSO if >\$100k b) If required, CaFO routes to the 2. CaFO reviews contracts with a) If required, review terms and conditions appropriate office(s) for review / approval: with PI, and return to Step 1 if basic issues unusual terms and conditions must be addressed before further review. (not following the template). i) IO for insurance variations ii) AIPO for privacy variations iii) external counsel template variations 3. RSL reviews contracts with a) Contract sent simultaneously to b) If problematic areas remain, proceed appropriate offices for review / approval: to Step 4; otherwise, go to Step 5. template terms and conditions. i) FA for contracts flagged by RSL / OCII / CaFO ii) ORS Manager iii) HR paper copy (FFS, conflict of interest). 4. RSL collects all reviews and b) If problematic areas remain unacceptable, then a) If a risk management or other plan can manage problematic discusses problematic areas (if terms, then RSL works with PI to develop an appropriate plan for ORS Manager / AVPR negotiates revisions to the any) with ORS Manager / AVPR. subsequent review / approval by ORS Manager / AVPR. contract with the external partner. c) RSL routes to Research d) If the contract is not approved, b) RSL routes to PI for counter 5. Final review / approval. Accounting (once compliance is a) AVPR signature (if not already obtained.) AVPR provides reasons in writing to review / approval, then VPAR / granted) for account opening. VPAF review and signatures (if required). Return copies to RSL to scan and enter into Dean PI PI returns a fully executed version to Research Accounting notifies Romeo. **END** RSL to enter in Romeo. PI of account opening. Legend PI = Principal Investigator **VPAF** = Vice-President, Administration and Finance RSL = Research Services Liaison **VPAR** = Vice-President, Academic and Research **CaFO** = Contracts And Special Funding Officer AVPR = Associate Vice President Research IO = Contracts and Insurance Officer **ORS** = Office of Research Services **Template NDA Process RCC** = Research Compliance Coordinator OCII = Office of Commercialization, Industry and Innovation BSO = Biosafety Officer AIPO = Access to Information and Privacy Office FA = Faculty Association HR = Human Resources Figure A1: Research Contract Administration Flow Chart

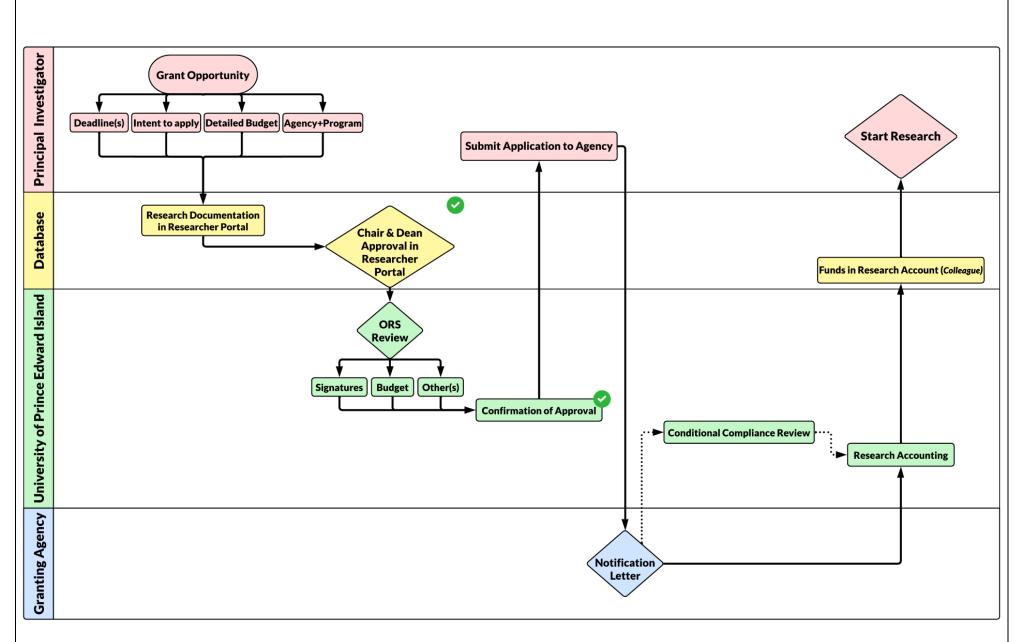


Figure A2: Research Services Signature and Deadline Process for External Researcher-Led Grant Applications