**Application for Research Acceleration Program Funding**

**(Tier I and II)**

Carilion Clinic has designated funds for the Research Acceleration Program (RAP) to provide seed money for pilot research projects. This seed funding will enable Carilion faculty to conduct preliminary research in order to develop and enhance pilot projects into competitive candidates for external funding and publication opportunities.

Applications will be reviewed according to the following criteria:

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| * Significance | * Innovation |
| * Approach | * Dissemination |
| * Feasibility | * Relation to Applicant’s Work & Goals |

The RAP funding cycle is annual. The average project period will be one year, and funds must be spent within that one-year period. The deadline for submitting an application and all supporting documentation will be announced on the Department of Research & Development’s (R&D) webpage and via a general email announcement. The original signed and completed application packet must be delivered to [research@carilionclinic.org](mailto:research@carilionclinic.org) no later than **5:00 pm on November 22, 2021.**

**Applications must include the full protocol/abstract.** If your project involves any outside person or organization, if funded, your project will require a collaborative agreement, which will be negotiated by R&D and will need to be approved by the VP of Academic Affairs. Should you have any questions about the process, please contact R&D at [research@carilionclinic.org](mailto:research@carilionclinic.org).

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| 1. **General Project Information**   **NOTE: Once you enter the application process your project PI & Title MUST remain the same**  **\*\*PI cannot be a resident or medical student** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carilion Principal Investigator/Program Director: | | | | | | | | |  | | | | | | | | | | | | | | | | | |
| Department& Address: | | | |  | | | | | | | | | | | | | | | | | | | | | | |
|  | | Telephone: | | |  | | | | | | | | | | | | | Email: | | | |  | | | | |
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| Contact Person (if other than PI): | | | | | | | | | | | |  | | | | | | | | | | | | | | |
|  | | Telephone: | | | | | | | | | |  | | | | | | Email: | | | |  | | | | |
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| Project Title: | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| **II. Additional Funding Information** | | | | | | | | | | | | | | | | | | | | | | | | |
| Does your project have additional funding? | | | | | | | | | | | | | | | | | | Yes or pending  No (If no, skip to section III) | | | | | | |
| Project Sponsor: | | | | | | | | | | | | |  | | | | | | | | | | | |
| Program Name: | | | | | | | | | | | |  | | | | | | | | | | | | |
| Sponsor Due Date | | | | | | | | | |  | | | | | | | | | Receipt Date | | | | |  |
| Sponsor Address: | | | | | | | | |  | | | | | | | | | | | | | | | |
| Sponsor Contact: | | | | | | | Name: | | | | | | | |  | | | | | | | | | | |
|  | | | | | | Email: | | | | | | | |  | | | | | | | | Phone: |  | | |
| Sponsor Type: | | | | | Federal  Fed Flow Thru  State  Foundation/Non Profit  Industry/Commercial | | | | | | | | | | | | | | | | | | | |
| Check All  That Apply: | | | | | Research | | | | | | | | | | | Instruction | | | | Scholarship / Fellowship / Training  Public Service | | | | | |

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| **III. Personnel & Time and Monthly Effort on Project of Carilion Employees** | | | |
| **Name** | **Role &Responsibility** | **Percent Effort**\* | **Signature** |
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| **\*Please enter the total monthly percentage of effort each individual will spend on the duration of the project. As an example, if a full-time investigator will work one day a week on the project, the percent effort would be 20%.** | | | |

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| **IV. Non-Carilion Collaborator Contribution, including Students (see details below)** | | | |
| **Name** | **Role &Responsibility** | **Institution** | **In-Kind Contribution** |
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| If your project has any non-Carilion collaborator or team member, including students and faculty from other institutions such as VT (including VTCRI & VA-MD Vet Med), VTCSOM, VCOM, LTC/Nursing facilities, etc. Please include a Letter of Intent and a Statement of Work, which can be downloaded at [here.](http://insidecarilion.org/system/files/Statement_of_Work_SAMPLE.DOC) **NOTE:** Additional agreements may be required. | | | |

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| **V. Required Attachments** |
| The following documents must be attached to this form in order for your application to be considered complete. |

1. **Research Acceleration Application**

Must be complete with all signatures.

1. **Biograhical Sketches of PI and all Key Personnel**Must be in NIH format, no more than 4 pages each.  
   The biosketch form is available on Inside Carilion Research RAP Info and Forms
2. **Completed Budget Request and Justification**

Complete the budget request in Section XI (page 6). Include a justification of each expense in the space provided in Section XII (page 7).

1. **Completed Project Narrative**

See Section XIII (page 8) for required outline

1. **Support Letters (if project involves outside collaborators or intuitions)**

If there is a collaborating institution (subcontractor), a letter from the institutions research office is required; see page 10 of the RAP Guidelines.

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| **VI. Additional Department Involvement** | | | |
| **\*\*If services from other areas are being requested please note that a Feasibility Meeting will be scheduled to work through the roles and responsibilities and possible charges to the project. Non-sponsored projects are required to undergo review by the Carilion Research Review Committee (CRRC).**Signatures from area leadership **must** be included if leadership from that department is not able to attend the feasibility meeting. Note that some of these services will incur a charge and you should plan your budget accordingly. | | | |
| Technology Services/  Health Analytics  EPIC/EMR  Optimizations  MyChartReporting  Analytics  (Biostatisticians)  Reports/Extracts  EPIC Build or Set-up | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Basic Science  Laboratory  Biohazards  Hazardous  Chemicals/  Waste  Recombinant  DNA/RNA  Animals | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Pharmacy |  | Emergency Dept. |  |
| Solstas Lab |  | Psychiatry Dept. |  |
| Nursing |  | Surgery Dept. |  |
| Medicine Dept. |  | Radford Univ Carilion |  |
| OB/GYN Dept. |  | Human Resources |  |
| Pediatrics Dept. |  | Pathology |  |
| Physical Therapy |  | Radiology |  |
| Respiratory |  | Center for Simulation, Res &Pt Safety |  |
| Other (Please Specify): |  |  |  |

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| |  |  | | --- | --- | | **VIII. PHI – Protected Health Information** | | | **Will your project access any Protected Health Information?** | **Yes**  **No** | | . | | | | | | |
| **IX. Recruitment Plan** | | | | | |
| How many study subjects: | |  | Time line: | to |

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| **X. Signatures & Certification** |

**Your application will not be deemed complete without all appropriate department chair or designee signatures. Once you enter the application process your project PI & Title MUST remain the same.**

**By signing below, PI/PD certifies that:**

1. The information submitted within the application is true, complete and accurate to the best of the PI’s knowledge;
2. Any false, fictitious, or fraudulent statements or claims may subject the PI to criminal, civil, or administrative penalties;
3. The PI agrees to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of the application;
4. The proposal complies with federal regulations including standards for integrity of research, RFP/ Announcement requirements, and Carilion's Policies and Procedures;
5. The principal investigator, co-investigators, or anyone involved in the sponsored activity is not presently debarred, proposed for debarment, suspended, declared ineligible, or voluntarily excluded from transactions by the federal department, or agency; and are aware of no circumstance invalidating the legal certifications in the proposal to be made on behalf of the Carilion Clinic.

Principal Investigator/PD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

**By signing below, management certifies that:**

The following have reviewed and approved this application, and by signing, certify that:

1. The proposed activities are appropriate to the research, instruction or public service mission of Carilion;
2. It is believed that the project aligns with Carilion’s organizational values.
3. The necessary resources for the project, including percent of investigator(s) effort and space and/or facilities are committed and/or budgeted in the RAP grant application.

Chair/Vice President/Dean: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

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| **XI. Requested Budget [not to exceed $40,000 (Tier I ) or $10,000 (Tier II)]** | | | | |
| Please fill out all applicable areas. Salary funds may be requested for support positions. These include students, Research Coordinators, Statisticians and other support staff. Note that the fringe benefit rate for Carilion staff varies by department; please contact R&D for rates. Additional areas of support include supplies, ancillary services, and subcontractors/consultants. As RAP funds are intended to underwrite research conducted by Carilion medical staff, overhead costs (F&A) will not be included. | | | | |
| **Other Personnel** | | | | |
| ***Name and/or Role*** | ***Percent Time*** | ***Salary Requested*** | ***Associated Fringe Benefits*** | ***Total Request*** |
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| **Other Personnel Total** | | | |  |
| **Itemized Ancillary Services** | | | |  |
| Imaging  Lab Tests  Pharmacy  Technology Services  Other (please identify) | | | |
| **Ancillary Services Total** | | | |  |
| **Materials and Supplies** (Itemize below) | | | |  |
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| **Materials and Supplies Total** | | | |  |
| **Consultant** | | | |  |
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| **Consultant Total** | | | |  |
| **Subcontracting Institution** | | | |  |
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| **Subcontracting Institution Total** | | | |  |
| **Other Expenses** (itemize below) | | | |  |
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| **Other Expenses Total** | | | |  |
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| **TOTAL REQUEST** | | | |  |

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| **XII. Budget Justification** |

On this page, justify each of the line items in the budget above. For support personnel, give a description of what their roles will be in the project.

**Personnel**

**Ancillary Services**

**Materials and Supplies**

**Consultants**

**Subcontracting Institution**

**Other Expenses (Travel, Equipment, etc)**

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| **XIII. Research Protocol/Abstract** |

Carilion Clinic Research Proposal/Protocol

**Carilion Clinic Protocol Template Version Date: September 2016**

**Study Abstract**

***{Provide a brief, non-technical summary of the study, including study purpose, methods, population(s) and expected outcomes. It should stand on its own and not refer to points elsewhere in the protocol.}***

**Background (Significance and Innovation)**

***{Summarize background information about the research question(s). Tell why the research is needed and include the relevance of the research to contribute to this field of study. Also, provide references to relevant articles in the literature. (If you have more than 10 references, please submit the list of references as a separate attachment. Otherwise, please insert them here.)***

**Objectives/Specific Aims**

***{State the research hypothesis or question(s) the research will answer. List the research objectives and expected outcomes. A primary outcome or objective must be identified. After the statement of the primary objective, secondary objectives may be listed. Objectives should be simple and specific.}***

**Study Design (Approach)**

***{Begin with a brief description of any preliminary studies. Give a description of the research design, including the use of placebo, randomization and an explanation of what is experimental. Include type of study: descriptive, retrospective, cross-sectional, longitudinal, prospective, observational, and experimental (controlled or non-controlled) or pilot.}***

**Study Population**

***{Describe the subject population, including age, gender, ethnic characteristics and health status. State the inclusion/exclusion criteria along with how this was determined and by whom. Please state whether pregnant women, children, or other vulnerable groups will be included or excluded. Provide rationale for using or excluding special populations. Address the feasibility of your recruitment and retention strategies.}***

**Methodology**

***{List all activities or procedures that will be performed (e.g. pre-treatment tests and medications, tests and medications used during therapy, diagnostic tests, X-rays, laboratory tests, questionnaires and other forms, interviews, focus groups, chart reviews, etc.) Describe how and where tests will be analyzed. Distinguish any standard processes from those that are research. Please describe activities/procedures in a step-by-step, chronological order.}***

**Data Collection/Extraction**

***{List exactly what data is to be gathered during this research study. Include data collection methods and how data will be compiled for assessment. Attach a copy of your Data Collection tool to this application. Address the data extraction questions below and the feasibilityof obtaining the data within the RAP time frame}***

**Statistical Analysis**

***{State how qualitative and/or quantitative data will be analyzed. Other outcomes may be listed as secondary and descriptive.}***

**Research Dissemination**

***{Describe expected outcomes and how the findings will be used to inform future work. Indicate expected modes of dissemination of the study findings (publications, presentations, patents, etc). Provide specific extramural directions you will follow should your hypotheses be supported and the directions you will take should the hypotheses not be supported. As such, indicate how you plan on submitting for an external grant (Foundations, NIH, state agencies, etc) based upon your findings, including specific information about potential funding opportunities (RFPs) to which a proposal will be addressed. Finally, if the application is related to a Carilion care priority, describe methods that will be used to ensure the findings are implemented broadly across the system, if applicable.}***