# National Centers for Biomedical Imaging and Bioengineering (NCBIB) - P41 White Paper for Applications with Direct Costs Greater Than $500,000

If you cannot access the hyperlink below, visit:

<https://grants.nih.gov/grants/guide/pa-files/PAR-20-169.html>

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| Project Title | Click here to enter project title |
| PD/PI Name | Click here to enter PD/PI name |
| MPI Name | Click here to enter MPI name if any |
| Email Address | Click here to enter email |
| Institution | Click here to enter institution |

Application Type: Choose an item

\*\* This template must be used for the white paper \*\*

**Please Note:** The white paper must be submitted at least 12 weeks before the application submission date.

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| Overview Including Significance, Innovation, Uniqueness, and National Impact of Center — not to exceed 2 pages |
| **Overall Premise and Goal:**  **Significance:** the need and the impact.  **Innovation Across the TR&D Projects:** what is new in the proposed TR&D projects and Center? What are the technological gaps that the Center technology would bridge, if successful, to address unmet clinical need?  **Uniqueness:** what makes the proposed technologies/tools and solutions unique and demanding (investigators, resources, and environment are review criteria, not uniqueness)? why would a researcher come to your Center rather than going to the university around the corner?  **National Impact of the Center**: the clear demand for technologies/tools, geographical and scientific distribution of initial CPs/SPs, and potential to advance basic understanding of diseases and improving healthcare. |

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| Technology Research and Development (TR&D) Projects Including project title, lead PIs names and efforts, and TR&D projects’ description, specific aims, deliverables, and synergy — approximately 1 page per TR&D project. |
| **Title, Lead PI(s) name(s) and effort(s) in calendar months (CM)**  **Overview:**  **Specific Aims:**  **Deliverables:**   * the primary lead is expected to be well-established in the field with significant commitment to the TR&D project (see FOA) |

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| Synergy among TR&D Projects |
| * not to exceed ½ page * how TR&D projects complement or interact with each other? * **graphical representation will be helpful** |

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| Environment and Resources |
| * not to exceed 1 page * how the project environment and resources are suitable for the proposed research? |

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| Collaborating Projects (CPs) Including PI name, organization, grant number, duration of funding, grant title, summary of relevant part of the grant, and the highlight of Push-Pull interactions between CP and specific TR&D Projects, and a summary table of interactions —approximately 2 pages |
| **CP#:** PI name, organization, grant number, duration of funding, and grant title.  **Project Summary:**summary of relevant part of the grant, and the highlight of **Push-Pull** interactions between the CP and specific TR&D projects  **Push:** how is the Center pushing the TR&Ds projects’ technologies to the CP to advance their research efforts or to address an unmet need/challenge of the CP?  **Pull:**how do the CP’s research efforts and needs challenge and stimulate TR&D projects to result in development of additional advanced technologies? (simply testing the technology, providing feedback or data generated by the Center’s technology is part of the “push”, and is not considered as a “pull”).  **Impact on the CPs:** how do the CPs benefit from the Center’s technologies?   * please ensure that the funding of individual CP project is not expiring before or shortly after the start of the P41 center, should the proposed project be funded. * for renewal, label the new CPs as New. |

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| Service Projects (SPs) Including PI name, organization, grant number, duration of funding, grant title, summary of relevant part of grant, the highlight of push and services provided to the SP by specific TR&D Projects, and a summary table of interactions —not to exceed 2 pages |
| **SP#:** PI name, organization, grant number, duration of funding, grant title.  **Project Summary:** summary of relevant part of grant, and the interaction between the SP and specific TR&D projects.  **Push:** how is the Center pushing the TR&D projects technologies to SPs? What technologies are received to solve a biomedical/clinical question?  **Advancements to the SPs:** how do the SPs benefit from the Center’s technologies?   * for renewal, label the new CPs as New. |

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| Graphical Interactions of CPs and SPs with TR&D Projects |
| * only for described SPs and CPs |

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| Geographical Distribution Map for the Described CPs and SPs |
| * only for described CPs and SPs |

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| Technology Training and Dissemination (TTD) Activities |
| * approximately 1 page * training should address diverse needs from different users. plans for dissemination activities should have sufficient details and should not be too general, e.g., specific targeted conference names are expected. |

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| Center Administration Including Leadership Plan and Organizational Chart |
| * approximately ½ page   **Leadership Plan:**  **Organization Chart:**  **External Advisory Board (EAC) Recommendation:** if renewal  **Sunset Plan**: if last renewal |

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| Brief Progress Report and Achievements *If Renewal* |
| * not to exceed 2 pages |

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| Distinction from the Current Center *If a New Submission After the Sunset* |
| * not to exceed 1 page |

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| Introduction Addressing the Review Comments *If Resubmission* |
| * approximately 1 page * all changes within the white paper text in compared to the previous white paper submission should be highlighted. |

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| References |
| * not to exceed 1 page |

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| Summary of Budget Justification *Including personnel and equipment* — not to exceed 2 pages |
| * personnel including names, roles, and efforts for lead PIs and key investigators, title, and brief description of their contribution to this project for each major component as well as the overall Center. * all major components: Admin, TR&D projects, TTD. * major equipment list with justification. * overall justification for travel, material and supplies, and other expenses * various institutional support, such as salary support, facility resources, equipment/supplies, matching funds, etc. should be summarized here, with estimated dollar amount if possible. |

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| Estimated Budget Table *Including Timetable (Years 1-5)* — not to exceed 2 pages |
| * must use the “Budget Template” from NIBIB website, provide the excel file separately. * information for each TR&D project (PI, % effort, graduate students, etc.) should be provided and consistent with budget justification. please note that the equipment cost should not be included when calculating indirect cost. |

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| NIH Biosketches Including the role in the project for PDs and TR&D Project’s lead investigators |
| * current and recently finished grant support information (grant number, title, total award, award duration, a brief summary, etc.) should be included |