**2020-21 CTSI TL1 Application**

**PART 1.** List applicants in alphabetical order by last name

**Team Research Project Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NAME OF APPLICANT A:** | |  | | | | |
| Individual Research Project Title: | |  | | | | |
| Campus Address: |  | | Preferred Phone: | | |  |
| E-mail Address: |  | | UFID: | | |  |
| Graduate Program: |  | | Major/Concentration: | | |  |
| College: |  | | Department: | | |  |
| Current Source of Stipend & Tuition Support: |  | | | | | |
| *Demographic information is reported to the NIH in aggregate, without personal identifiers.* | | | | | | |
| *Gender:* ***□*** *Female □ Male* | | | | | | |
| *Ethnicity (please mark all that apply): □ Asian □ White □ Black or African American □ Hispanic*  *□ Native American or Alaskan Native □ Native Hawaiian or other Pacific Islander*  *□ Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | | | | | | |
| *Citizenship: □ United States □ Permanent Resident (country of citizenship: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)* | | | | | | |
| **TL1 Mentor (and TL1 Co-Mentor for Applicant B)** | | | | | | |
| Name: |  | | | Title: |  | |
| Department: |  | | | Division: |  | |
| Phone: |  | | | E-mail: |  | |
| List any other mentors, if relevant to your project. | | | | | | |
|  | | | | | | |
| **NAME OF APPLICANT B:** | |  | | | | |
| Individual Research Project Title: | |  | | | | |
| Campus Address: |  | | Preferred Phone: | | |  |
| E-mail Address: |  | | UFID: | | |  |
| Graduate Program: |  | | Major/Concentration: | | |  |
| College: |  | | Department: | | |  |
| Current Source of Stipend & Tuition Support: |  | | | | | |
| *Demographic information is reported to the NIH in aggregate, without personal identifiers.* | | | | | | |
| *Gender:* ***□*** *Female □ Male* | | | | | | |
| *Ethnicity (please mark all that apply): □ Asian □ White □ Black or African American □ Hispanic*  *□ Native American or Alaskan Native □ Native Hawaiian or other Pacific Islander*  *□ Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | | | | | | |
| *Citizenship: □ United States □ Permanent Resident (country of citizenship: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)* | | | | | | |
| **TL1 Mentor (and TL1 Co-Mentor for Applicant A)** | | | | | | |
| Name: |  | | | Title: |  | |
| Department: |  | | | Division: |  | |
| Phone: |  | | | E-mail: |  | |
| List any other mentors, if relevant to your project. | | | | | | |

**PART 2A: NAME OF APPLICANT A - INDIVIDUAL RESEARCH PLAN**

**Please attach student NIH Biographical Sketch using the modified NIH form provided.**Do not exceed 5 pages for the biosketch.

Individual Research Plan: Font size must be 11 or 12. Arial is the preferred font. Do not exceed 4 pages for this section.

1. Introduction *(max 0.5 page)*
   1. Individual (dissertation) project title.
   2. Statement of overall research problem, and specific hypothesis or hypotheses to be tested.
   3. Project Relationship to Mentor’s Research Program: Explain briefly the relationship between your dissertation research and/or proposed TL1 research and your mentor’s ongoing research program.
2. Specific Aims *(max 0.5 page)*
   1. State concisely the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will have on the research field(s) involved.
   2. List your individual dissertation specific aims (team aims will be described in your TL1 Team Research Plan).
   3. List succinctly the specific objectives of the research proposed (*e.g.*, to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology).
3. Research Strategy for Individual Specific Aims *(max 3 pages)*
   1. Significance: Explain the importance of the problem or critical barrier to progress that the proposed project addresses. Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields. Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.
   2. Brief summary of any preliminary data based on your work or the work of others in your lab.
   3. Approach: Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims. If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high risk aspects of the proposed work.
   4. IRB and/or IACUC: Identify any IRB or IACUC protocols relevant to your project, and/or plans for future protocol submission.

(Citations: you may include citations for Parts 2A, 2B, and 3, but no more than one page. This page does not count toward the page limits.)

**PART 2B: NAME OF APPLICANT B - INDIVIDUAL RESEARCH PLAN**

**Please attach student NIH Biographical Sketch using the modified NIH form provided.**Do not exceed 5 pages for the biosketch.

Individual Research Plan: Font size must be 11 or 12. Arial is the preferred font. Do not exceed 4 pages for this section.

1. Introduction *(max 0.5 page)*
   1. Individual (dissertation) project title.
   2. Statement of overall research problem, and specific hypothesis or hypotheses to be tested.
   3. Project Relationship to Mentor’s Research Program: Explain briefly the relationship between your dissertation research and/or proposed TL1 research and your mentor’s ongoing research program.
2. Specific Aims *(max 0.5 page)*
   1. State concisely the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will have on the research field(s) involved.
   2. List your individual dissertation specific aims (team aims will be described in your TL1 Team Research Plan).
   3. List succinctly the specific objectives of the research proposed (*e.g.*, to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology).
3. Research Strategy for Individual Specific Aims *(max 3 pages)*
   1. Significance: Explain the importance of the problem or critical barrier to progress that the proposed project addresses. Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields. Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.
   2. Brief summary of any preliminary data based on your work or the work of others in your lab.
   3. Approach: Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims. If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high risk aspects of the proposed work.
   4. IRB and/or IACUC: Identify any IRB or IACUC protocols relevant to your project, and/or plans for future protocol submission.

**PART 3: TL1 TEAM RESEARCH PLAN**

This section should be written by both student applicants, working together as a team. Team specific aims should be incorporated into individual dissertation research proposals. Mentors should review the application and provide feedback before submission, and before writing the mentors’ statement (Part 4).

Font size must be 11 or 12. Arial is the preferred font. Do not exceed 3 pages for this section.

1. Team Statement *(max 0.5 page)*
2. Common research interest or question that brings your team together.
3. Rationale that supports the need for the collaboration.
4. How your backgrounds and/or experiences are complementary.

B. Research Training Plan

1. Team Specific Aim(s) *(max 0.5 page)*
   1. Hypothesis that forms the basis of your collaborative research.
   2. Identify the clinical and/or translational components of your research plan.
   3. State concisely the goals of the proposed collaborative research and summarize the expected outcome(s).
   4. List succinctly the specific objectives of the research proposed (*e.g.*, to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology).
   5. How will each team member contribute to the collaboration?
2. Research Strategy for and Significance of Team Specific Aims *(max 2 pages)*
   1. Approach: Briefly describe the overall strategy, methodology, and analyses to be used to accomplish the team specific aims.
   2. Significance: Briefly discuss any of the following that may apply to your project (you do not have to address all of them).

* Importance of the problem or critical barrier to progress that your collaboration addresses.
* How the proposed collaboration will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields.
* How much interdependence is required between team members to accomplish your team aims?
* Discuss the synergy between individual projects. How will your results be greater than the sum of the individual parts? How will your results be different than if you were working independently?
* How will the collaboration impact your individual dissertation research projects?
* What impact will results of collaboration have on the different research field(s) involved?

1. IRB and/or IACUC: Identify any IRB or IACUC protocols relevant to your team specific aims, and/or plans for future protocol submission.

C. Signatures

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(NAME OF APPLICANT A) (NAME OF APPLICANT B)

**PART 4: TL1 TEAM MENTORING PLAN**

Two PhD and/or dual degree student applicants have joined forces to form this proposed TL1 Team. In most cases their primary research mentors will serve TL1 co-mentors for the TL1 Team. In other words, the two students making up the TL1 Team have a team of two TL1 mentors for the purposes of the TL1 program.

A. For each faculty mentor, please attach a current NIH Biosketch that includes current and pending funding *(max 5 pages)*. <https://grants.nih.gov/grants/forms/biosketch.htm>

B. For each faculty mentor, please attach a list of current and past predoctoral trainees, including dissertation topic and current position.

C. Please provide one combined letter of support, written and signed by both TL1 mentors. Please address the following in your letter of support.

* Familiarity with and support for TL1 team’s proposed collaborative research
* Willingness to co-mentor the TL1 team
* Relevance of proposed research to clinical and/or translational science
* Planned frequency and type of contact with TL1 team members
* Understanding and support of the requirements of the program

If you have any questions about the TL1 program and/or CTS concentration requirements, please consult the CTSI website (<https://www.ctsi.ufl.edu/education/ph-d-students/>) and/or contact Dr. Wayne McCormack ([mccormac@ufl.edu](mailto:mccormac@ufl.edu), 294-8334).

**UF CTSI TL1 Application Scoring**

Categories: Applicant A Individual Research Plan

Applicant B Individual Research Plan

TL1 Team Research Plan

TL1 Team Mentoring Plan

Overall Score

Each category will be scored according to the following NIH criteria (1-9).

|  |  |  |  |
| --- | --- | --- | --- |
| **Score** | **Impact** | **Descriptor** | **Additional Guidance on Strengths/Weaknesses** |
| **1** | High | Exceptional | Exceptionally strong with essentially no weaknesses |
| **2** | Outstanding | Extremely strong with negligible weaknesses |
| **3** | Excellent | Very strong with only some minor weaknesses |
| **4** | Moderate | Very Good | Strong but with numerous minor weaknesses |
| **5** | Good | Strong but with at least one moderate weakness |
| **6** | Satisfactory | Some strengths but also some moderate weaknesses |
| **7** | Low | Fair | Some strengths but with at least one major weakness |
| **8** | Marginal | A few strengths and a few major weaknesses |
| **9** | Poor | Very few strengths and numerous major weaknesses |

Minor weakness: An easily addressable weakness that does not substantially lessen impact

Moderate weakness: A weakness that lessens impact

Major weakness: A weakness that severely limits impact