CTSC TL1 PRE & EARLY POST-DOCTORAL AWARD APPLICATIONS

DUE BY 5PM ON TUESDAY, JANUARY 31, 2017

$28,120 for one year (Pre-docs)
Up to $65,122 for one year* (Post-docs)

*Depending on level of experience

Funding Dates: July 1, 2017 – May 31, 2019

NOTE: Funding for this award is based on continued NIH CTSC Grant Funding

CLICK TO INITIATE APPLICATION
View Eligibility Requirements and Application Instructions

The goal of the CTSC TL1 Training Award is to support career development among pre- and early post-doctoral trainees by providing advanced degree training and practical skills to conduct translational team research across disciplines and institutions. Projects must have a translational or clinical research focus. Pre-clinical studies should have near-term potential to translate into patient-oriented research. Clinical Trials (phases I or II) are permitted. Emphasis is placed on drug discovery, targeted therapeutics, biomarker or device development and novel technologies; projects focusing on health needs of LGBTI and underserved populations and/or directly impacting health outcomes in the community; pediatric and women’s health studies; life course studies of disease; and studies incorporating biostatistical methodologies and design. Basic research proposals will not be funded.

TL1 Trainees pursue research training on a full-time basis, defined by NIH as 40 hours per week (100% time and effort). Appointments are normally made for 12 months (no less than 9 months). Trainees Receive:

- Stipend coverage at the NIH approved level
- Funding for supplies and research support including educational expenses
- Funding for travel to present at national conferences and symposia
- Access to resources for conducting C/T research, multi-level mentoring support, and career development

Investigators from all disciplines—pre-clinical, clinical and translational—are welcome to apply. Individuals from underrepresented groups, from disadvantaged backgrounds and/or with disabilities are strongly encouraged to apply.

Questions? See CTEP FAQs, or email CTSC-Education@med.cornell.edu
EDUCATIONAL AND PROGRAM REQUIREMENTS

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<th>Pre and Post-doctoral MDs</th>
<th>Pre and Post-doctoral PhDs</th>
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<td>TL1 awardees that currently hold a medical degree or are medical students are required to enroll in either the Advanced Certificate (if funded for 1 year) or the Master’s in C/T Investigation program (if funded for 2 years).</td>
<td>TL1 awardees that are enrolled in, or currently hold doctoral-level research degrees (PhD) are eligible to enroll in the fast track program for the Advanced Certificate or Master’s Degree in C/T Investigation.</td>
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Required upon completion of program:

- **TL1 Trainees** are required to complete or have completed within the last four years, Responsible Conduct of Research training.
- Presentation of the mentored research project at a CTSC Research in Progress Luncheon.
- A scientific article, with first authorship, submitted to a high-quality scientific journal **OR** if appropriate, a clinical & translational grant proposal submitted to a federal (i.e., K23, R21, R01, or other NIH funding mechanism) or other funding agency requiring peer-review with the trainee named as Principal Investigator.
- A presentation of the mentored research project at the Translational Science National Meeting **AND** at a national/international scientific conference.

Questions? See [CTEP FAQs](#), or email [CTSC-Education@med.cornell.edu](mailto:CTSC-Education@med.cornell.edu)
Clinical & Translational Science Center
A Weill Cornell Medical College Multi-Institutional Consortium with:
Weill Cornell Graduate School of Medical Sciences / New York Presbyterian Hospital / Cornell University, Ithaca / Cornell University Cooperative Extension, New York City / Memorial Sloan-Kettering Cancer Center / Hospital for Special Surgery / Hunter College of the City University of New York / Hunter-Bellevue School of Nursing / Hunter School of Urban Public Health / Hunter Center for Translational and Basic Research / Animal Medical Center and Cornell College of Veterinary Medicine

1300 York Ave, Box 149, New York, NY 10065  •  Tel: 646-962-8302  •  Fax: 646-962-0534  •  www.med.cornell.edu/ctsc

CTSC TL1 PRE & EARLY POST-DOCTORAL AWARD APPLICATIONS

ELIGIBILITY AND APPLICATION INSTRUCTIONS
Applications must comply with eligibility and submission requirements
Missing or incomplete documents or information will disqualify your application for review

Program Eligibility - All Candidates
Must be US Citizens, Non-Citizen Nationals, or Permanent Residents (proof of legal status required)
Must have the ability to devote full-time (100% effort) to the program
Must have a primary appointment with a Weill Cornell CTSC partner institution
No candidate may apply or hold concurrently a CTSC Seed Funding Award. If awarded, no other Federal funding support is allowed
No TL1 Trainee may be named as PI (or trainee) on more than one active CTSC application

Pre-doctoral Candidates
Must have received a baccalaureate degree by date of appointment and be one of the following:
- Pre-doctoral medical (MD) student in 3rd or 4th year
- Graduate student enrolled at a CTSC partner institution
- Nurse candidate enrolled in a DSN or DNP program
- Dental (DDS), pharmacy (PharmD), or veterinary (DVM) student
Individual trainee may receive no more than 5 years of aggregate NRSA support at the pre-doctoral level
Transitioning from pre-doc to post-doc during the funding period is not allowed by the NIH

Post-doctoral Candidates
Must be early post-docs (no more than 4 years removed from terminal doctoral degree) and have received a PhD, MD, DDS, DVM, DO, DNsC, DNP or comparable doctoral-level degree by date of appointment. May include:
- Residents and fellows (e.g. Medical, Surgical) in a research pathway
Individual trainee may receive no more than 3 years of aggregate NRSA support at the post-doctoral level

Application Instructions and Checklist – Complete all fields.

Trainee Application Form - Click on your current legal status to proceed.
Personal and demographic information: A valid employer issued/institutional email is required.
If you are not selected for the TL1 Award and wish to be considered for any off of the CTSC Education Programs please select from the list of programs proposed (please note, a letter of support from your department chair/division chief is required).
Project Summary – Succinctly describe (250 word or less) your proposed project written in plain language so even a non-scientist can understand the importance of the project. Include the project’s broad, long-term objectives, specific aims, research design, methods, significance, and innovation.
Multidisciplinary Integration – Succinctly describe (250 words or less) how a multidisciplinary approach is integrated into this proposal. A multidisciplinary approach is one that brings experts from traditionally basic biological or physical sciences with non-biological disciplines including biostatistics.
Mentors - Click on [add] and fill in required information. All mentors must have active or recent peer-reviewed (federal or foundation) funding. Mentors cannot be listed on more than 2 active CTSC applications or current awards (including CTSC Seed Awards). Two mentors are required, but no more than 3 mentors can be named on an application. A Primary Mentor must be designated and each mentor’s role must be listed. Of the two proposed
mentors:
One must be designated to serve as a Clinical mentor and one a Basic Science or Public Health mentor
At least 2 mentors, including the designated primary mentor, must be from different Weill Cornell CTSC partner institutions and from different disciplines. NIH definition of different disciplines will have priority (areas outside biology, e.g., computer science, imaging, chemistry, mathematics, informatics, engineering, behavioral science, health services/outcomes research, and biostatistics)

Biosketches: Upload individual PDF files for the applicant and mentors; note the new NIH Biosketch format is required for all key personnel.

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<th>Supporting Documents – Please Upload Attachments as individual PDF files.</th>
<th>Completed</th>
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<td>Projects must have a translational or clinical research focus. Pre-clinical studies should have near-term potential to translate into patient-oriented research. Clinical Trials (phases I or II) are permitted. Emphasis is placed on drug discovery, targeted therapeutics, biomarker or device development and novel technologies; projects focusing on health needs of LGBTI and underserved populations and/or directly impacting health outcomes in the community; pediatric and women’s health studies; life course studies of disease; and studies incorporating biostatistical methodologies and design. Basic research proposals will not be funded. Limited to 3 single-spaced pages (at least ½ inch margins, no smaller than 11pt Arial font) to include: Hypothesis and specific aims Scientific background for the study, citing appropriate references of work in the area by the investigator(s) and others Significance of the research (relating specific aims to future studies to be generated) and importance of funding to feasibility of the project Research Plan (research team to be involved, experimental design, methods, statistics, timeline, innovation, human subjects and animal issues, if applicable) References and supporting tables, figures, 2-3 additional pages Career Statement (1 page or less) – Discuss your short and long-term goals and how this award would impact your career and professional development. Letters - Must be addressed to “TL1 Admissions Committee”, on departmental letterhead, signed, and emailed directly from the department to <a href="mailto:ctsc-education@med.cornell.edu">ctsc-education@med.cornell.edu</a>: Department Chair/Division Chief Letter: Must indicate that the applicant will be guaranteed 100% protected time and effort. Mentors Letters: Required from all mentors and the designated primary mentor’s letter must include a mentoring plan (click link for instructions). Proof of Legal Status: Provide verification of legal status (scanned copies acceptable): US Citizen: U.S. Passport, Birth Certificate, Certificate of Citizenship, or Naturalization Certificate Non-Citizen National: a notary’s signed statement certifying that you have legal verification of such status Lawfully Admitted Permanent Resident: a notary’s signed statement certifying that you have legal verification of such status and scanned copy of Permanent Resident Card (USCIS Form I-551) Transcripts and Test Scores – Upload digital copies of test scores and transcripts with application submission. Upon award acceptance, official documents will be required in hardcopy. Test scores include: MCAT, GRE and TOEFL. Transcripts from Undergraduate, graduate and/or medical school.</td>
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REVIEW CRITERIA

Upon submission to the online application module ePAR, your application will undergo review based on several Application Review Criteria.

APPLICATION PROCESS & TIMELINE

Applications are due by 5pm on Tuesday, January 31, 2017. Candidates will be notified by May 2017 of their applications final disposition. At that time, if selected for funding, the applicant will complete additional required regulatory and compliance documents within 30 days. Funding is contingent on submission of this information and failure to do so will result in disqualification. Upon submission of this additional information, the CTSC will prepare an award agreement. Once the award agreement is signed by the appropriate institutional business official(s), WCMC Office of Sponsored Administration will review and sign the agreement and notify the CTSC that funds can be released.

BUDGET NOTES

- Tuition and fees are not supported by the TL1 Award.
- TL1 trainees cannot receive stipend support from any other federal grant
- Items not allowed: 1) Capital or depreciable equipment over $2500; and 2) Computer hardware (laptops, desktops, etc)
- Only supplies of consumable nature that are directly related to the project are allowed
- Funding requests for travel and/or other supplies must be directly related to the project and clearly outlined in the budget justification
- Each year of funding is contingent on satisfactory participation in the CTSI TL1 activities and progress toward the scholar's individual career goals, and continued support from the Scholar's mentors and department. The CTSC grant period ends 5/31/17 and funding beyond that date is dependent upon NIH CTSC Grant funding.
- This is an institutional career development award granted to the CTSC at Weill Cornell Medical, and it is non-transferable; scholars who leave the CTSC Consortium will not be able to continue receiving TL1 funding from the Weill Cornell CTSC.

For a fast start on spending your award funds:

No expenditures related to human subjects or animals will be permitted until the CTSC is provided with a copy of the official IRB/IACUC letter of approval. Investigators are strongly encouraged to submit IRB and/or IACUC protocols early in order to avoid significant delays in project initiation. Applicants must also be current on institutional compliance regulations.

Questions? See CTEP FAQs, or email CTSC-Education@med.cornell.edu
Clinical & Translational Science Center
A Weill Cornell Medical College Multi-Institutional Consortium with:
Weill Cornell Graduate School of Medical Sciences / New York Presbyterian Hospital / Cornell University, Ithaca / Cornell University Cooperative Extension, New York City / Memorial Sloan-Kettering Cancer Center / Hospital for Special Surgery / Hunter College of the City University of New York / Hunter-Bellevue School of Nursing / Hunter School of Urban Public Health / Hunter Center for Translational and Basic Research / Animal Medical Center and Cornell College of Veterinary Medicine

MENTORING PLAN INSTRUCTIONS:
(Each mentor’s letter not to exceed 3 pages)

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<th>Please provide a detailed mentoring plan for the Candidate that describes the approaches to be used such as frequency of one-on-one and group meeting; oral scientific presentations; instruction on how to critically evaluate the literature and experimental design; training in scientific writing (e.g., grant proposal preparation, manuscripts, and abstracts); designing experiments, etc. Plans to enhance the candidate's research capabilities should include:</th>
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<td>1. Specific skills to be acquired during the mentoring experience</td>
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<td>2. Milestones that will be reached during the mentoring experience (e.g., acquisition of preliminary data, new research skills, presentation of research findings at local/national meetings, and publications)</td>
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<td>3. Describe how the Candidate will be supported and guaranteed protected time, including how they will ensure that the project will be done in a timely manner</td>
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<td>4. Opportunities to interact with research team; The role of other investigators who will contribute to the research mentoring should be described in the application</td>
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<td>5. The mentoring plan must include guidance in the ethical conduct of research (including training in animal and human subjects' protection, if applicable)</td>
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<td>6. A plan to acquire presentation and publication skills, and participation in poster or oral presentations in at least one scientific meeting during the award period</td>
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<td>7. A plan on how opportunities will be provided for the Candidate to participate in writing and publishing scientific papers</td>
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<td>8. Describe any planned outside laboratory experiences or collaborations for the Candidate</td>
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<td>9. How this experience will help the candidate move toward achieving her/his stated career goals</td>
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<td>10. Mentors and candidate must provide a projected time line delineating specific research milestones and other activities that will be undertaken in an attempt to secure independent research funding (i.e., anticipated publications, training in grantmanship, timeframe for grant submissions and type of independent research support the candidate seeks)</td>
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<td>11. Mentors should provide evidence of mentoring experience and success. Please provide a list containing: (1) Current Trainees, (2) Past Trainees (≤ 10 years). For each of the individuals listed, please provide their current positions and name of institution, outcomes of the prior trainees. Describe how these prior mentoring experiences influenced the development/mentorship plan proposed for the current candidate</td>
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Reference NHLBI mentoring guidelines
CTSC TL1 TRAINING AWARD
APPLICATION REVIEW CRITERIA

Similar to the NIH process, each proposal is carefully reviewed by at least two independent evaluators for scientific merit based on translational focus and significance. The following criteria are taken into consideration:

- **Overall Impact Score** - Reviewers should provide their assessment of the likelihood that the proposed research plan will enhance the candidate’s potential for a productive, scientific research career in a health-related field, taking into consideration the criteria below in determining the overall impact score.

- **Career Dev Plan/Career Goals & Objectives** - What is the likelihood that the plan will contribute substantially to the scientific development of the candidate and lead to a scientific research career? Are the candidate’s prior training and research experience appropriate for this award?

- **Research Proposal** - Is there a strong scientific premise for the project? Are the proposed research question, design, and methodology of significant scientific and technical merit? Has the candidate presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed? Is the research plan of high quality, and does it have potential for advancing the field of study? Is the scientific and technical merit of the proposed research plan of significance? Will the proposed research lead to an independent line of research for the candidate?

- **Mentors and Mentoring Plan** - At least 2 mentors are required. Primary and Secondary mentors must be from CTSC partner institutions. Additional mentors may be from any institution. Are the qualifications of the mentor(s) in the area of the proposed research appropriate? Does the mentor(s) adequately address the candidate’s potential and his/her strengths and areas needing improvement? Is there adequate description of the mentor’s proposed role in providing guidance and advice to the candidate? Is there evidence of the mentors’ previous experience? Is there evidence of the mentors’ current research productivity and peer-reviewed support? Is there evidence of the mentors’ active/pending research funding? Do the letters from mentors document their willingness to participate in the award program? Is the proposed Mentoring plan likely to contribute substantially to the scientific and professional development of the candidate, and facilitate his/her successful transition to a scientific research career? (see Instructions for Mentoring Plan)

- **Environment & Departmental Commitment**: Is there a strong statement of commitment by the department to the levels of effort required to devote directly to the research and career development activities described in the application? Is the departmental commitment to the career development of the candidate appropriately strong? Is the environment for scientific and professional development of the candidate of high quality? Is there assurance that the department intends the candidate to be an integral part of its research program?
The following areas receive additional priorities for their special relevance to the CTSC mission:

- **Translational and Clinical Research Focus** – Projects aimed at improving research methods and/or incubating novel technologies to accelerate multidisciplinary clinical and translational research.

- **Pre-clinical studies** should have near-term potential to translate into patient-oriented research, clinical trials (phases I or II) are permitted.

- **Emphasis is placed on:**
  
  o Drug discovery, targeted therapeutics, biomarker or device development and novel technologies.
  
  o **Comparative effectiveness and health disparities research** - Projects focusing on health needs of LGBTI and underserved populations and/ or directly impacting health outcomes in the community.
  
  o **Pediatric and Women's Health Studies**
  
  o **Life course studies of disease**
  
  o Studies incorporating **Biostatistical Methodology and Design**

Questions? See [CTEP FAQs](#), or email [CTSC-Education@med.cornell.edu](mailto:CTSC-Education@med.cornell.edu)