

**Date:** July 30, 2018

**To:** Northwestern University Department Chairs, Center and Institute Directors and Faculty

**From:** H. William Schnaper, MD, Professor and Vice Chair, Department of Pediatrics, Irene Heinz Given and John Laporte Given Professor of Pediatric Research and Director NUCATS Institute TL1 Program

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**Re:** Request for applications for NUCATS Institute Multidisciplinary Training Program in Child and Adolescent Health postdoctoral fellowship research training program (TL1)

The Northwestern University Clinical and Translational Sciences Institute (NUCATS) is pleased to announce a call for applications for the Multidisciplinary Training Program in Child and Adolescent Health (TL1). The goal of this program is to train clinician scientists and engineers to conduct translational science that will improve the care of children and adolescents. This innovative program is funded as part of the NUCATS Institute Clinical and Translational Science Award (CTSA). The CTSA award is supported by the National Center for Advancing Translational Sciences at the National Institutes of Health.

The purpose of this communication is to invite TL1 trainee nominations from graduating PhDs or pediatric fellows at or applying to Northwestern University. It is important to recognize that the field of engineering is quite broad and diverse. Potential applicants to the program are encouraged to visit the [TL1 website](#) to view the spectrum of projects that have been supported by TL1 funding. For further information, determination of eligibility or assistance in identifying mentors, please contact the program coordinator, Ginne Meyers, at [g-meyers@northwestern.edu](mailto:g-meyers@northwestern.edu). Full applications for the TL1 Training Program are due **September 10, 2018**. We will issue an updated RFA if positions remain available after the deadline and accept and review applications on a rolling basis until slots are filled. See the "Timeline of Events" section on the last page for application due dates, notice of award dates and funding start dates.

## **A. OVERVIEW**

The overall goal of the TL1 is to address the US workforce need for well-trained clinician scientists and engineers by attracting talented trainees, equipping them with the tools to succeed and retaining their commitment to be independent investigators. The TL1 aims to train postdoctoral fellows in a creative and multidisciplinary environment that produces investigators equipped to apply translational scientific approaches to problems in child and adolescent health. The TL1 is a dynamic program that promotes interactions among both mentors and trainees from multiple disciplines in order to encourage creative thinking and novel approaches to child-health translational science.

In order to accomplish this objective the TL1 program offers access to extensive research training resources including: mentor matching, monthly sessions focused on Collaborative Approaches in Child and Adolescent (C&A) Health, team science training, catalyzing new teams and ideas, mentor development workshops, community mentors, research and methods mentors and support, grant writers groups, experiential learning opportunities and more. The TL1 program endeavors to catalyze creative, multidisciplinary partnerships between pediatrics, engineering and data science to improve child and adolescent health.

The TL1 program accepts applications from two types of trainees wishing to receive additional training and mentorship in clinical and translational science. Applications will be accepted from:

- (1) Clinical postdoctoral fellows pursuing training in child and adolescent health who desire to complement their clinical insight with research skills learned from mentors with diverse scientific backgrounds.
  - a. Clinical fellows should have a primary mentor with a focus in pediatric or adolescent health
  - b. Secondary mentors will usually come from engineering or data science to complement the clinical expertise. TL1 leadership is available to help identify secondary mentors.
- (2) Graduating PhDs and PhD postdoctoral fellows from engineering and basic scientific disciplines – including areas such as bioengineering, synthetic biology, systems biology, informatics, population science, materials science, operations research, imaging, signal processing and analysis, gaming theory, robotics, machine learning, health services research, and communication disorders – who desire to apply their discipline to a project in child and adolescent health.
  - a. PhD Postdoctoral Fellows will usually have a primary mentor with a focus in engineering or data science
  - b. Secondary mentors should complement this basic science mentor with clinical expertise. TL1 leadership is available to help identify secondary mentors.

The award is open to individuals with doctoral-level degrees, including but not limited to: PhD, MD, DO, DC, DDS, DVM, OD, DPM, ScD, EngD, DrPH, DNSc, ND (Doctor of Naturopathy), PharmD, DSW, PsyD, or equivalent doctoral degree from an accredited domestic or foreign institution. Trainees for the TL1 program are accepted from a wide array of specialties, departments and schools and partner institutions across NU. For the purposes of this proposal, Engineering is broadly designed and includes, but is not limited to, such fields as Data Science, Biomedical Engineering, Industrial (process) Engineering, Chemical and Biological Engineering, Computer Science, Materials, Simulation, Prosthetics and Device development. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are especially encouraged to apply.

The TL1 program provides support for up to **two years** and applications should be submitted that cover a training period of **two years**. The two-year training must include both mentored research and plans for other research training activities in child and adolescent health (see below). The second year of training is contingent on satisfactory progress during year 1.

Individuals who are funded by this mechanism will receive assistance in applying for other fellowship awards or independent grants during the period of this award. All trainees supported on the TL1 are encouraged to prepare an F or K-series grant early in year 2 of their appointment, and expected to submit a first-author manuscript based on their funded project.

Postdoctoral fellows in the TL1 program will participate in an integrated didactic and mentored research program overseen by the TL1 Internal Advisory Committee (IAC). The IAC has been constituted to include members from diverse backgrounds to insure that all areas represented by

NUCATS have input into the decisions of the TL1 program, including the selection of trainees, catalyzing innovative partnerships for the trainees, development and monitoring of trainee individual development plans (IDPs), and the identification of novel opportunities and approaches to research training in child and adolescent health. The IAC includes several experienced investigators and mentors as well as young investigators and developing mentors. The IAC is chaired by the TL1 Program Director, Dr. William Schnaper.

**G. TIMELINE OF EVENTS**

The table below lists the application due dates, notice of award dates and the tentative funding start dates for the TL1 program.

Applications must be submitted by the application due date indicated below. If, after review, positions remain unfilled, further applications will be considered on a rolling basis. Please visit the [TL1 website](#) for additional information about the number of current open slots in the program.

Application Due	Notice of Award	Tentative Funding Start Date
September 10, 2018	mid-October, 2018*	November 1, 2018
<i>*Date is subject to change based on availability of the review panel</i>		

**H. ELIGIBILITY, PROVISIONS, TERMS, AND APPLICATION INSTRUCTIONS**

[Detailed information can be found on our website.](#)

Standard NIH NRSA T32 and F-series award eligibility requirements apply.

Awardees will receive [prevailing NRSA stipend](#), health insurance, tuition support, travel expenses, and programmatic support in the areas of qualitative methods, mentor matching, team science training, Responsible Conduct of Research training, grant writing workshops, and access to the Center on Community Health.

All trainees are expected to attend programming on a regular basis and comply with data requests while funded and with annual update requests for 15-years post-funding for NIH reporting.

Mentors are required to participate in career development activities and provide annual updates as requested, as well as provide funding to trainees for research-related expenses.

Applications should be submitted via [NITRO Competitions](#). [Application Instructions are found on our website.](#)

Process related questions can be directed to Ginne Meyers at 312-503-5811 or [g-meyers@northwestern.edu](mailto:g-meyers@northwestern.edu).

Questions related to selection of mentors or co-mentors and/or potential candidate eligibility or qualification can be directed to Bill Schnaper at [schnaper@northwestern.edu](mailto:schnaper@northwestern.edu).

We look forward to your response to this solicitation.