



Research Internship Program Summer, 2019

**Cohen Children's Medical Center
New Hyde Park, New York**



Cohen Children's Medical Center:

Steven and Alexandra Cohen Children's Medical Center of New York is dedicated to providing the highest levels of care in meeting the special needs of children, from premature babies to adolescents. The specialists in its national and international programs cover a range of specialties. Its 202-bed hospital opened in 1983 as the New York metropolitan area's only hospital designed exclusively for children. Today it is the largest provider of pediatric health services in New York State. Cohen Children's Medical Center serves 1.8 million children in Brooklyn, Queens, Nassau and Suffolk counties – providing state-of-the-art care for children's medical, surgical, psychiatric and dental needs in both inpatient and outpatient settings.

Northwell Health:

Northwell Health is a not-for-profit healthcare network that includes 22 hospitals, the Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, the Feinstein Institute for Medical Research, as well as rehabilitation and skilled nursing facilities, a home care network, a hospice network and progressive care centers offering a range of outpatient services. Northwell Health has more than 12,000 member physicians, and Northwell Health's Physician Partners employs more than 3,100 physicians and is comprised of more than 550 regional ambulatory locations and physician practices.

Available Internships – 2019

Pediatric Sub-specialty Area	# of Positions	Time Commitment	Deadline	Contact Name	Page Number
<u>Hospital Medicine</u>	6 - 8	6 - 8 weeks	3/4	Arlene Guastella, aguastel@northwell.edu	<u>4</u>
<u>Allergy & Immunology</u>	2 - 4	8 - 10 weeks	3/4	Last Names A to M: Patricia Bittner pbittner@northwell.edu Last Names N to Z: Nicole Stile nstile@northwell.edu	<u>6</u>
<u>Infectious Disease</u>	2	8 - 10 weeks	3/4	Nancy Stellato RN nstellat@northwell.edu	<u>8</u>
<u>Nephrology</u>	1	8 - 10 weeks	3/4	Rachael Odusanya roodusanya@northwell.edu	<u>10</u>
<u>Pulmonology & Cystic Fibrosis</u>	1 - 2	8 weeks	3/4	Maria Santiago, MD MSantiag@northwell.edu	<u>14</u>
<u>Cardiology</u>	1-2	8-10 weeks	3/4	Richard Friedman, MD RFriedman4@northwell.edu	<u>17</u>

2019 Summer Clinical Research Internship in Pediatric Hospital Medicine

Description: A 6-8 week program in clinical research related to pediatric hospital medicine is offered by Cohen Children's Medical Center of New York (formerly Schneider Children's Hospital) – part of Northwell Health.

The Summer Research Internship offers 6-8 accomplished students the opportunity to work closely with a faculty mentor on one or more research projects related to Pediatric Hospital Medicine. Current projects in the division include outcome analysis after implementation of clinical guidelines, outcome analysis related to limited English proficiency and family centered rounds. Students will assist a faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. Most projects include retrospective chart reviews or database entry, but there will also be projects that may involve direct contact with patients.

While participating in the program, interns will have the opportunity to shadow the medical team on the inpatient units and in the newborn nursery. They will observe family centered rounds and participate in daily educational sessions such as morning report and noon conference.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record and aspires to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-investigators on one or more research abstracts submitted to national research meetings based on their participation in a research project. Students who are able to successfully write a manuscript for journal submission of their research findings will be identified as the first or second author of any paper submitted for publication.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 6-8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns may take one or more unpaid days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing, and it is expected that this will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

► Lectures:

- Attend noon conference lectures and grand rounds on general pediatrics topics

► Clinical Observation:

- Shadow medical team during Family Centered Rounds

Stipend: This is an unpaid internship.

To Apply: You must submit a completed application (PDF attached), a résumé, and an unofficial transcript. The most competitive applicants will be invited to submit 2 letters of recommendation. Letters of recommendation should be sent directly from the individual writing the letter, not from you. Letters of recommendation should focus on your academic scholarship; for this reason, letters from friends, family members, coaches, or former employers are not appropriate. All materials should be sent electronically using the subject line "Summer Research Internship Application - Last Name, First Name" to Ms. Arlene Guastella, aguastel@northwell.edu. A selected group of applicants will be chosen to interview with Dr. Palumbo, Division Chief of Pediatric Hospital Medicine.

Application Process & Deadline: The submission deadline is March 2, 2018; all materials must be received by that date. It is anticipated that notification of decisions will be made in late March

2019 Summer Clinical Research Internship in Allergy and Immunology

Description: An 8-10 week program in clinical research related to allergic and immunologic diseases in children and adults is offered by Cohen Children's Medical Center of New York – part of Northwell Health (formerly, the North Shore-Long Island Jewish Health System).

The Summer Research Internship offers 2-3 accomplished students the opportunity to work closely with a faculty mentor on one or more research projects related to allergic or immunologic diseases. Students will assist the faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. The projects can include retrospective chart reviews, data analyses, and translational research. The student is expected to be an integral part of a team in designing and carrying out a research project. Although the internship is primarily focused on clinical or translational research, there may be an opportunity for the intern to also co-author a review article or meta-analysis for publication in a peer-reviewed journal. (See details below.)

While participating in the program, interns will be expected to attend some introductory clinical lectures about allergic and immunologic disorders. Research interns will also be encouraged to attend other lectures of interest available through the Department of Pediatrics at the Children's Hospital. There will also be opportunities for shadowing of clinicians in our sub-specialty area and potentially other pediatric sub-specialties as well.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record, and interest in allergic or immunologic disorders (including primary and secondary immune deficiency, asthma, food allergy, atopic dermatitis or allergic rhinitis) and aspires to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-authors on one or more research abstracts submitted to national research meetings in which their work was an integral part of the abstract. Students who are able to successfully contribute to a manuscript for journal submission of the research findings will also be identified as a co-author of any paper submitted for publication on projects that they have contributed time, effort, and data.

Review Article: There may be an opportunity for a well-qualified student to be the first author on a meta-analysis or a review article for a peer-reviewed medical journal. To the extent that the specific focus of this review article has not yet been determined, suggestions by intern applicants are welcome. The article needs to be clinically focused and related to a specific allergic or immunologic disorder. A student with strong academic credentials and equally strong writing skills may be given the opportunity to write the first draft of this article and be identified as first author of this review article. The manuscript draft will need to be completed by August 24th.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns may take one or more days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing which will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

- ▶ Lectures (10%):
 - Attend Allergy and Immunology core lectures, and case conferences
 - Prepare and Present the intern's summer research findings to the A/I professional staff
- ▶ Clinical Observation (10%):
 - Shadow Allergy and Immunology faculty and fellows in the out-patient clinic and attend in-patient rounds
- ▶ Miscellaneous (5-10%):
 - Assist with special projects such as quality improvement projects and general office support

Stipend: This is an unpaid internship and no housing is provided.

To Apply: You must submit a completed application (PDF attached), a résumé, and an unofficial transcript. All materials should be sent electronically using the subject line "Summer Research Internship Application - Last Name, First Name" to Mrs. Patricia Bittner at pbittner@northwell.edu if your last name begins with the letter A to M and Ms. Nicole Stile at nstile@northwell.edu if your last name begins with the letter N to Z.

Application Process & Deadline: The submittal deadline is Thursday, March 1, 2018; all materials must be received by that date. It is anticipated that notification of decisions will be made in early March.

For Further Information: The research internship is coordinated by Dr. Punita Ponda. Questions regarding the Allergy and Immunology internship or its application should be directed to Dr. Ponda at pponda@northwell.edu.

2019 Summer Clinical Research Internship in Pediatric Infectious Diseases

Description: An 8-10 week program in clinical research related to pediatric infectious diseases in children and adolescents is offered by Cohen Children's Medical Center of New York – part of Northwell Health.

The Summer Research Internship affords the student the opportunity to work closely with a faculty mentor on one or more research projects related to pediatric infectious diseases. Students will assist the faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. Most projects include retrospective chart reviews and data analyses. The student is expected to be an integral part of a team in designing and carrying out a research project.

While participating in the program, interns will have the opportunity to shadow in our clinics and on rounds. Research interns will also be encouraged to attend other lectures of interest available through the Department of Pediatrics at the Children's Hospital.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record and aspires to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-investigators in a research abstract submitted to national research meetings. Students who are able to successfully contribute to a manuscript for journal submission of the research findings will be identified as a co-author of any paper submitted for publication.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns are allowed one or more days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing, and it is expected that this will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

► Lectures:

- Attend noon conference lectures on general pediatrics topics



- Pediatric Infectious Diseases weekly conferences

► Clinical Observation:

- Shadow pediatric infectious diseases faculty and fellows in the out-patient clinic and attend in-patient rounds

► Miscellaneous:

- Assist with special projects such as quality improvement projects and general office support

Stipend: This is an unpaid internship.

To Apply: You must submit a completed application (PDF attached), a résumé, a writing sample, and an unofficial transcript. The most competitive applicants will be invited to submit 2 letters of recommendation. Letters of recommendation should be sent directly from the individual writing the letter, not from you. Letters of recommendation should focus on your academic scholarship; for this reason, letters from friends, family members, coaches, or former employers are not appropriate. All materials should be sent electronically using the subject line "Summer Research Internship Application" to Dr. Lorry Rubin at LRubin4@Northwell.edu.

Application Process & Deadline: The submittal deadline is 12 noon EDT on Monday, March 4, 2019; all materials must be received by that date/time. It is anticipated that notification of decisions will be made by the end of March.

For Further Information: The research internship is coordinated by Nancy Stellato RN. Questions regarding the internship or its application should be directed to Ms Stellato at NStellat@Northwell.edu.

2019 Summer Clinical Research Internship In Pediatric Nephrology

Description: An 8-10-week program in clinical research related to pediatric nephrology in children and adolescents is offered by Cohen Children's Medical Center of New York— part of Northwell Health (formerly North Shore-LIJ Health System).

The Summer Research Internship offers 1 accomplished student the opportunity to work closely with a faculty mentor on one or more research projects related to pediatric nephrology. Students will assist the faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. Most projects include retrospective chart reviews, but there will also be projects that will involve direct contact with patients. The student is expected to take ownership of a research project and write a manuscript by the end of the summer.

While participating in the program, interns will have the opportunity to shadow in our clinics and on rounds. Research interns will also be encouraged to attend other lectures of interest available through the Department of Pediatrics at the Children's Hospital.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record and aspires to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-investigators on one or more research abstracts submitted to national research meetings. Students who are able to successfully write a manuscript for journal submission of their research findings will be identified as the first or second author of any paper submitted for publication. A list of research abstracts accepted for presentation at national meetings is attached.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns may take one or more unpaid days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing, and it is expected that this will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

► Lectures:

- Attend noon conference lectures on general pediatrics topics
- Pediatric Nephrology lectures 2-3 per week



- ▶ Clinical Observation:
 - Shadow pediatric nephrologists in the out-patient clinic and attend in-patient rounds
- ▶ Miscellaneous:
 - Assist with special projects and general office support

Stipend: This is an unpaid internship.

To Apply: You must submit a completed application (PDF attached), a resume, a writing sample, and an unofficial transcript. The most competitive applicants will be invited to submit 2 letters of recommendation. Letters of recommendation should be sent directly from the individual writing the letter, not from you. Letters of recommendation should focus on your academic scholarship; for this reason, letters from friends, family members, coaches, or former employers are not appropriate. All materials should be sent electronically using the subject line "Summer Research Internship Application - Last Name, First Name" to Kalliopi Grammatikopoulos (kgrammatik@northwell.edu) and Rachael Odusanya (rodusanya@northwell.edu)

Application Process & Deadline: The submittal deadline is March 2, 2018; all materials must be received by that date. It is anticipated that notification of decisions will be made by late March.

For Further Information: The research internship is coordinated by Rachael Odusanya (rodusanya@northwell.edu). Questions regarding the internship or its application should be directed to both Kalliopi and Rachael.

National Meetings: Research Abstract Acceptances

Platform Presentations:

- Blood Pressure Variability in Children with Primary vs. Secondary Hypertension. ^A
- Effect of Pre-Transplant Weight on Pediatric Kidney Transplant Outcomes. ^A

Poster Presentations:

- Pulse Wave Velocity in Pediatric Nephrotic Syndrome. ^B
- Concordance of LVMI with LVH on echocardiogram reports. ^B
- The Value of Tacrolimus Drug Levels in the Management of Nephrotic Syndrome in Children. ^A
- Hydronephrosis in Infants and Children: Natural History and Risk Factors for Persistence in Children Followed by a Medical Service. ^A
- Acute Kidney Injury in Non-Cardiac Neonates. ^B

Publications

- Hydronephrosis in Infants and Children: Natural History and Risk Factors for Persistence in Children Followed by a Medical Service. *Clinical Medicine: Pediatrics* 2009;1 63-70. ^A
- The Value Of Tacrolimus Drug Levels In The Management Of Nephrotic Syndrome In Children *The Internet Journal of Nephrology* ISSN: 1540-2665
<http://www.ispub.com/journal/the-internet-journal-of-nephrology/volume-6-issue-2/1386557986the-value-of-tacrolimus-drug-levels-in-the-management-of-nephrotic-syndrome-in-children.html>. ^A
- Concordance of Measures of Left-Ventricular Hypertrophy in Pediatric Hypertension. *Pediatr Cardiol.* 2013 Nov 20. ^B
- Second-line Immunosuppression Therapy in the Treatment of Childhood Nephrotic Syndrome: A Single Center Experience. *Nephron Extra*, January 2014. ^A
- Prevalence of Hypertension in a Haitian Bataye. *Science Journal of Public Health.* 2014; 2(5): 480-485 doi: 10.11648/j.sjph.20140205.26. ^A
- Blood Pressure Variability in Children with Primary vs. Secondary Hypertension. *J Clin Hypertens.* 2014 Jun;16(6):437-41. ^A
- High Prevalence of Nephrotic Syndrome in South Asian Children. *Journal of Clinical Pediatric Nephrology.* 2015 Vol 1(1). ^A
- Role of Race in Kidney Transplant Outcomes in Children with FSGS. *Pediatric Transplantation.* 2016 Sep;20(6):790-7. ^A
- Blood Pressure and Urolithiasis in Children. *Journal of Urology.* 2016 Sep 18. pii: S1477-5131^A
- Renal Volume and Ambulatory Blood Pressure in Children. *Journal of Clinical Hypertension.* In Press.

A – Summer research intern as 1st author

B – Summer research intern as co-author

Comments from Recent Summer Research Interns

" Working with the Department of Pediatric Nephrology was definitely my most rewarding summer internship. Not only did I get an immense amount of freedom and support in my clinical research, but I also had the invaluable experience of closely shadowing physicians and residents in the clinic. Both the research and shadowing were unparalleled by any past experiences. When I shadowed, everyone in the clinic welcomed my questions and pushed me to actively engage in my learning rather than passively observe. After clinic hours, I was even invited to attend lectures held for residents, by various physicians.

In research, Dr. Sethna gave me great amount of support, guidance, and responsibility. I interacted with patients to take measurements and pulled data from their medical records. At the end of the internship, I was given the chance to be the first author on a published paper. Through this experience, I gained valuable insight into data analysis and manuscript writing and editing. This internship fed my enthusiasm for medicine and taught me a great deal about clinical research as well as pediatrics at large."

J.K., University of Pennsylvania, Class 2014
Research Intern, Summer 2012

"My summer with the pediatric nephrology division at Cohen's was probably the most influential clinical and research experience I've had. The role is demanding, and requires self-motivation, but the effort applied is exponentially rewarded. Just from this summer alone, I was able to work on three papers that would be accepted for either publication or presentation, including a study of my own which was accepted for a platform presentation.

In addition, shadowing Dr. Sethna on rounds and in clinic was a clinical exposure that provided both hands-on experience and new perspectives on what it's like to be a clinician. The combination of pediatrics and nephrology presents truly fascinating cases, and the physicians try to engage the student researchers in a way that develops the thinking needed to apply the scientific content from the syllabus to real, clinical situations. Working under Dr. Sethna's guidance was an invaluable experience that, for me, yielded academic success, strengthened my research ability, and further solidified my commitment and passion for medicine."

D.L., Brandeis University, Class of 2014
Research Intern, Summer 2013

2019 Summer Clinical Research Internship in Pediatric Pulmonology and Cystic Fibrosis

Description: An 8-week program in clinical research related to pediatric pulmonology and Cystic Fibrosis in children and adolescents is offered by Cohen Children's Medical Center of New York, part of Northwell Health (formerly, the North Shore-Long Island Jewish Health System).

The Summer Research Internship offers 1-2 accomplished students the opportunity to work closely with a faculty mentor on one or more research projects related to pediatric pulmonology and Cystic Fibrosis. Current projects in the division include participation in an asthma education program (Project BREATHE), database entry of severe asthmatics and technology dependent patients, and pulmonary function in sickle cell patients. Students will assist a faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. Most projects include retrospective chart reviews or database entry, but there will also be projects that may involve direct contact with patients.

While participating in the program, interns will have the opportunity to shadow in our clinics and on rounds. Research interns will also be encouraged to attend other lectures of interest available through the Department of Pediatrics at the Children's Hospital.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record and aspires to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-investigators on one or more research abstracts submitted to national research meetings based on their participation in a research project. Students who are able to successfully write a manuscript for journal submission of their research findings will be identified as author of any paper submitted for publication.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns may take one or more unpaid days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing, and it is expected that this will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

- Lectures:

- Attend noon conference lectures and grand rounds on general pediatrics topics
- Clinical Observation:
- Shadow pediatric pulmonologists in the out-patient clinic, observe bronchoscopies and attend in-patient rounds
- Miscellaneous:
- Assist with special projects and general office support

Testimonials from former interns:

"The summer I spent as a research intern with the Pediatric Pulmonology department at Cohen Children's Medical Center was truly formative for my career. Dr. Santiago and the rest of the doctors and staff I spent time with were kind, welcoming and so generous with their time. I realized that I loved the energy in the hospital, Dr. Santiago was so flexible and found ways for me to spend more time there. I know that when I apply for another clinical research position next summer, I will be an attractive candidate because I have written a research paper, interviewed patients, have experience with software that many researchers use, have applied for IRB approval, and have Dr. Santiago as a reference. Beyond that, shadowing Dr. Santiago and Hofstra residents on their rounds and in the OR assured me that I wanted to be a physician. I got a chance to see what lay ahead of me in my career and I am so thankful to everyone at Cohen Children's for that."

-- Elana Sanford

"The Summer Research Internship at Cohen Children's Medical Center is an outstanding experience. Dr. Santiago and her team are extremely friendly, enthusiastic and passionate about their field. Not only was I able to broaden my knowledge of clinical research, but I also had a unique glimpse into both inpatient and outpatient medicine. I had the opportunity to shadow various physicians, observe many procedures and see numerous patients with diverse medical histories... I was able to work on our research study through its many stages – from the original hypothesis, to data collection/analysis and, ultimately, to abstract completion and submission to the Pediatric Academic Society Meeting. Dr. Santiago is incredibly supportive, extremely knowledgeable about her field and a phenomenal mentor. The experience I had was unparalleled and I gained skills that I will undoubtedly utilize in my future career. I am honored to have had such a rewarding opportunity and I would highly recommend this internship."

-- Roxana Mehran

Stipend: This is an unpaid internship.

To Apply: You must submit a completed application (PDF attached), a résumé, a writing sample, and an unofficial transcript. The most competitive applicants will be invited to submit 1- 2 letters of recommendation. Letters of recommendation should be sent directly from the



individual writing the letter, not from you. Letters of recommendation should focus on your academic scholarship; for this reason, letters from friends, family members, coaches, or former employers are not appropriate. All materials should be sent electronically using the subject line "Summer Research Internship Application" to Dr. Maria Santiago at msantiag@northwell.edu

Application Process & Deadline: The submittal deadline is Monday, March 4, 2019; all materials must be received by that date. It is anticipated that notification of decisions will be made in early or mid- April.

For Further Information: The research internship is coordinated by Dr. Maria Santiago, Chief of the Division of Pediatric Pulmonology and Cystic Fibrosis. Questions regarding the internship or its application should be directed to Dr. Santiago at msantiag@northwell.edu.

2019 Summer Clinical Research Internship in Pediatric Cardiology

Description: An 8-10 week program in clinical research related to cardiovascular diseases in children is offered by Cohen Children's Medical Center of New York – part of Northwell Health.

The Summer Research Internship offers 1-2 accomplished students the opportunity to work closely with a faculty mentor on one or more research projects related to pediatric cardiology. Students will assist the faculty member in an ongoing research project and/or work collaboratively with the mentor in designing a new project of mutual interest. The projects can include retrospective chart reviews and/or data base analyses. The student is expected to be an integral part of a team in designing and carrying out a research project. Although the internship is primarily focused on clinical or translational research, there may be an opportunity for the intern to also co-author a review article or meta-analysis for publication in a peer-reviewed journal. (see details below.)

While participating in the program, interns will be expected to attend some introductory clinical lectures about cardiovascular disease in children. Research interns will also be encouraged to attend other lectures of interest available through the Department of Pediatrics at the Children's Hospital. There will also be opportunities for shadowing of clinicians in our sub-specialty area and potentially other pediatric sub-specialties as well.

The internship is open to students who have completed at least one year of study from any U.S. college or university. The ideal candidate is a student with a strong academic record, interest in cardiovascular disease and with good skills in using a database to enter critical data elements found in the medical record. Obviously, we would like to involve students who aspire to attend a doctoral program in medicine.

Research Abstracts/Publications: It is anticipated that students will be included as co-authors on one or more research abstracts submitted to national research meetings in which their work was an integral part of the abstract. Students who are able to successfully contribute to a manuscript for journal submission of the research findings will also be identified as a co-author of any paper submitted for publication on projects that they have contributed time, effort, and data.

Review Article: There may be an opportunity for a well-qualified student to co-author a meta-analysis or a review article for a peer-reviewed medical journal. To the extent that the specific focus of this review article has not yet been determined, suggestions by intern applicants are welcome. The article needs to be clinically focused and related to a specific congenital cardiovascular disorder. A student with strong academic credentials and equally strong writing skills may be given the opportunity to write the first draft of this article and be identified as first author of this review article. The manuscript draft will need to be completed by August 23rd.

Summer Program Dates: Start and completion dates for the summer internship are somewhat flexible. Although priority will be given to applicants prepared to make at least a full-time 8 week commitment or longer, other time schedule arrangements will be considered. With advance notice, research interns may take one or more days off as needed during their internship.

Other Activities/ Expectations/Opportunities: Although the primary focus of the internship is clinical research and writing which will comprise 70-75% of one's time, interns often welcome the opportunity to engage in other academic or clinical activities. A breakdown of these educational, clinical, and administrative support functions follows:

- ▶ Lectures (5-10%):
 - Attend Pediatric Cardiology core lectures and case conferences.
 - Prepare and present the summer intern's research findings to the Pediatric Cardiology professional staff.
- ▶ Clinical Observation (5-10%):
 - Shadow Pediatric Cardiology clinical faculty and fellows in the out-patient clinic and/or attend in-patient rounds.
- ▶ Miscellaneous (5-10%):
 - Assist with special projects such as quality improvement projects and general office Support.

Stipend: This is an unpaid internship.

To Apply: You must submit a completed application (PDF attached), a résumé, and an unofficial transcript. The most competitive applicants may be asked to submit 2 letters of recommendation and/or a writing sample such as a recent term paper. If requested, letters of recommendation should be sent directly from the individual writing the letter, not from you. Letters of recommendation should focus on your academic scholarship; for this reason, letters from friends, family members, coaches, or former employers are not appropriate. All materials should be sent electronically using the subject line "Summer Research Internship Application – Last Name, First Name" to Dr. Richard Friedman at RFriedman4@northwell.edu.

Application Process & Deadline: The submittal deadline is Monday, March 4, 2019; all materials must be received by that date. It is anticipated that notification of decisions will be made no later than April 1st.



For Further Information: The research internship is coordinated by Dr. Richard Friedman. Questions regarding the internship or its application should be directed to Dr. Friedman at RFriedman4@northwell.edu.