Postdoctoral Positions at Cincinnati Children's

Positions Available in various areas (Click to review details):

- Bioinformatics/ Computational Biology/ Biostatistics/ Epidemiology
- Cancer & Blood Diseases
- Cardiovascular Research
- Clinical Research/ Developmental Pediatrics/Health Disparities
- Genetics, Development, Physiology, and Disease
- Immunology/ Inflammation

Click here to apply online and use the relevant job number.

Questions?
Please contact:
Gail Pyne-Geithman, D.Phil., Scientist Recruiter:
research@cchmc.org

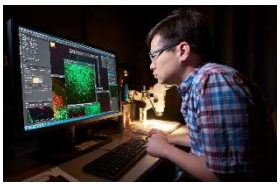
This is a dynamic document as new positions are added (as approved) and removed (when filled). Please visit our career site for the most current list of openings.

Cincinnati Children's Research Foundation

Cincinnati Children's Research and Training at a Glance:

- Consistently Ranked **Top 10 Children's Hospital** in the country
- Among the top in NIH funding for pediatric research institutions
- Over **1.4 million square feet** of research laboratory space
- **900+ scientists** conducting basic, translational, and clinical research
- Over **2000 publications** annually in top-tier journals
- Access to Employee Resource Groups and **Mentorship** programs
- Postdocs have gone on to careers in academia, biotech, pharma, teaching etc.

Learn more about the Postdoctoral Fellowship Program



Scan to learn more about the Research Foundation

Compensation and Benefits:

Postdoctoral Research Fellows and Associates are eligible for:

- Group Health, Dental, and Vision Insurance Plans
- Paid Time Off
- Retirement Plan
- Tuition Reimbursement
- Relocation benefits for eligible hires

Living in Cincinnati:

Learn more about Cincinnati, living here and get to know the neighborhoods!!

Please review our current openings described in the subsequent pages (the links on the left will take you to the sections of interest).

Please submit a cover letter describing your research interest, CV, and contact information for 3 references to the email address at the end of the position for which you would like to be considered.

Cincinnati Children's Hospital Medical Center is a Drug Free Workplace

Cincinnati Children's®
changing the outcome together

Bioinformatics/ Computational Biology/ Biostatistics/ Epidemiology

Postdoctoral Research Fellow Job Number: JR205280. Dr. Theresa Alenghat's Lab has an opening for a highly motivated postdoctoral research fellow interested in epigenetics, intestinal epithelial biology, and host-microbe interactions. We explore pathways that regulate how intestinal microbiota impact immune and metabolic homeostasis, infection, and inflammatory bowel disease. Candidates with publications reflecting expertise in epigenetics, immunology, and/or bioinformatics analyses are encouraged to apply.
Contact: Theresa Alenghat, VMD, PhD **Email Address: Theresa.Alenghat@cchmc.org**

Postdoctoral Research Fellow – Tech. Job Number: JR154285. The Mizuno Lab at Cincinnati Children's utilizes quantitative modeling and simulations, pharmacometrics, pharmacogenetics, and systems pharmacology approaches to develop and implement personalized precision dosing strategies in children and adults. Dr. Mizuno's award-winning research has focused on applying pharmacokinetic-pharmacodynamic (PK / PD) modeling, pharmacometrics, and quantitative pharmacology to develop and implement personalized drug dosing strategies in pediatric patients. This approach to therapeutic optimization is now being coined as "model-informed precision dosing (MIPD)" and is part of a wider context of precision medicine. He is seeking a Postdoctoral Fellow - Technical, to join his dynamic research team.
Contact: Tomoyuki Mizuno, PhD **Email Address: Tomoyuki.Mizuno@cchmc.org**

Cancer and Blood Diseases

Associate Staff Scientist Job Number: JR143537. The Lu lab has an opening for self-motivated individuals interested in a postdoctoral position doing cutting-edge research on brain tumorigenesis, tumor immunology, immunotherapy, and cancer neuroscience. Using mouse models, and state-of-the art cancer genomics, single-cell multi-omics, spatial transcriptomics, high-throughput drug and CRISPR/cas9 screens, as well as proton therapy and experimental therapeutics, our investigations delve into both cancer cell intrinsic and extrinsic mechanisms, exploring crucial factors such as oncogenic networks, tumor microenvironment, and immune cells that influence tumor formation, recurrence, and metastasis. Our research has been published in prestigious journals, including *Nature* (Luo, et al., 2022), *Nature Cell Biology* (Hu, X., 2022), and *Nature Communications* (Luo et al., 2023), among others. Candidates who have recently obtained a PhD or MD and possess a strong background in one or more of the following areas are encouraged to apply: molecular and cellular biology, neurobiology, cancer biology, and computational biology. Join us in our mission to advance the understanding and treatment of brain tumors and make a lasting impact on the lives of patients and their families.
Contact: Richard Lu, PhD **Email Address: Richard.Lu@cchmc.org**

Postdoctoral Research Fellow Job Number: JR153131. Dr. Nicolas Nassar is seeking a Postdoctoral research Fellow to join his laboratory in the Division of Experimental Hematology and Cancer Biology - Drug Discovery program. Duties include: studying the regulation and the targeting by small molecule inhibitors of the RAC activator VAV3 using in vivo, cellular, biochemical and/or structural approaches. Motivated applicants with biochemical, molecular and cellular expertise are encouraged to apply. Applicants with expertise in structural biology are also encouraged to apply.
Contact: Nicholas Nassar, PhD **Email address: Nicholas.Nassar@cchmc.org**

Cardiovascular Research

Postdoctoral Research Fellow Job Number: JR128409. The Ikegami lab at Cincinnati Children's Hospital Medical Center is recruiting highly motivated postdocs interested in developing a new tool to study chromatin biology at single cell levels. The lab has an ongoing project aiming to develop a transformative technique for mapping chromatin proteins in the genome in single cells. Candidates interested in genomics, chromatin biology, epigenetics, single cell techniques, or translational research using genomic techniques are highly encouraged to apply. A prior experience in experimental and computational genomics is a plus,but not required. Cincinnati Children's Hospital Medical Center is a home to world-class investigators working on chromatin biology and genomics. This postdoctoral position will enjoy a highly collaborative environment within and outside the medical center.
Contact: Kohta Ikegami, PhD **Email Address: Kohta.Ikegami@cchmc.org**

Clinical Research/ Developmental Pediatrics/ Health Disparities

Postdoctoral Research Fellow Job Number: JR153390. Collaborative Laboratories Investigating Pediatric Pain (CLIPP), under the direction of Drs. Robert C. Coghill & Christopher D. King, is focused on elucidating the mechanisms underlying pain using multidisciplinary approaches. The CLIPP group is seeking a postdoctoral fellow interested in receiving advanced training in the investigation of human pain mechanisms across the lifespan, with a particular emphasis on neuroimaging chronic pain in children. The ideal candidate will be independent, highly motivated, collaborative, and have a strong record of productivity in neuroimaging and/or pain research. Familiarity with at least one major neuroimaging software package (e.g. FSL, SPM, Freesurfer), Unix/Linux environment, and/or Matlab, Python, and/or R programming languages is desirable. This position will involve training in multiple methodologies, including neuroimaging of chronic pain, sensory testing, and psychological assessments. The fellow will be working primarily on different projects in the Coghill laboratory (https://www.cincinnatichildrens.org/research/divisions/b/psychology/labs/coghill), including National Institute of Health (NIH) funded studies examining the neural mechanisms underlying different chronic pain conditions. Additional training opportunities in sleep will be available in the closely aligned King Laboratory. Roles include neuroimaging analyses, experimental design

and interpretation, manuscript preparation, oversight of research coordinators and students, and participating in regulatory oversight of studies.
Contact: Robert Coghill, PhD **Email Address: Robert.Coghill@cchmc.org**

Development, Genetics, Reproduction, Physiology, and Disease

Postdoctoral Research Fellow Job Number: JR203483 & JR154691. Dr. Harrison's world-renowned research laboratory is seeking 2 motivated postdoctoral fellows. His laboratory was the first to correct a cystic fibrosis mutation using gene editing and specializes in cystic fibrosis (CF) gene editing and gene therapy. The overall aim of the lab in the Division of Pulmonary Medicine is to develop gene editing strategies that are amenable to clinical translation.
Contact: Patrick Harrison, PhD **Email Address: Patrick.Harrison@cchmc.org**

Postdoctoral Research Fellow Job Number: JR202843. Dr. Jeffrey Whitsett seeks 2 postdoctoral fellows passionate about pediatric pulmonary health who want to excel in a world-class research environment. Jeffrey Whitsett's laboratory makes extensive use of conditional gene targeting in transgenic mice, bioinformatics, physiology and biochemistry in the study of lung formation and function. Transgenic mice models are utilized to understand the pathogenesis of genetic and inflammatory lung disorders and to develop new therapies for respiratory disease. Conditional systems for gene targeting have been developed for study of lung formation and function, as well as for identifying lung progenitor cells and their fates in the mouse.

Contact: Jeffrey Whitsett, MD **Email Address: Jeffrey.Whitsett@cchmc.org**

Postdoctoral Research Fellow Job Number: JR153864. The ZY Chen laboratory at Cincinnati Children's Hospital seeks a postdoctoral research fellow. The Chen lab aims to understand epigenetic reprogramming by studying:

- Chromatin dynamics and functions during the parental-to-zygotic transition
- Key factors required for totipotency acquisition
- The biological significance of retrotransposon expression dynamics in early development

We implement interdisciplinary approaches to address these fundamental questions. The methods include embryo micro-manipulation, stem cell biology, (epi)genome editing, ultra-low input epigenome profiling, rapid protein degradation, high throughput genome-wide sequencing and computational techniques. Our lab aims to understand what determines totipotency, an amazing capacity that a single cell can develop into a whole animal with hundreds of cell types.
Contact: ZY Chen, PhD **Email Address: Zhiyuan.Chen@cchmc.org**

Endocrinology and Urology

Postdoctoral Research Fellow Job Number: JR150928. The Nakamura lab is recruiting a postdoctoral Research Fellow who is experienced in molecular biology, RNA biology, and /or immunology to support an NIH R01-funded position. The lab researches the role of extracellular vesicles (EVs) in the regulation of immunometabolism in the pathogenesis of obesity-associated metabolic and inflammatory diseases. We have been developing R01- projects investigating tissue-specific EVs and their RNA cargos in metabolic and inflammatory diseases, including but not limited to type-2 diabetes and non-alcoholic fatty liver disease, based on our recent findings (Cell 2010, Nature 2012, Diabetes 2014, PNAS 2015, Cell Reports 2015, Cell Reports 2018, Nature Comm 2018, Endocrinology 2021). The successful candidate will engage in immunological studies with our newly established mouse and cell culture models, EV's RNA cargo network analyses, and human clinical samples to comprehensively understand the roles of EVs in metabolic and inflammatory diseases.
Contact: Takahisa Nakamura, PhD **Email Address: Takahisa.Nakamura@cchmc.org**

Immunology/Inflammation

Postdoctoral Research Fellow Job Number: JR104634/JR129048/JR132332. Three postdoctoral positions are available immediately in Dr. Marc Rothenberg's laboratory, which is focused on allergic responses especially in mucosal tissues such as the lung and the gastrointestinal tract, and aims to understand mechanisms, develop drug targets and identify novel therapeutic strategies and agents. The postdoctorate will be focused on genomics, genetics, molecular immunology, and/or chemistry of several novels susceptibility loci and pathways involved in allergic diseases, and the biochemistry and enzymology of proteases (particularly calpain-14). The postdoctorate will develop, synthesize and/or evaluate small molecule detectors and inhibitors of signaling pathway molecules relevant in allergic diseases. The ideal candidate will have a PhD or equivalent in Biomedical Research with strong expertise in big data analysis, molecular and cellular immunology and/or genetics, Medicinal, Synthetic or Organic Chemistry. A working knowledge of the immune system, genetics and enzymology is preferable.
Contact: Marc Rothenberg, MD, PhD **Email Address: Marc.Rothenberg@cchmc.org**