UNIVERSITY OF MINNESOTA
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Job Opening Report

Job Opening Summary

Job Opening ID	345619
Job Posting Title	Post-Doctoral Associate: HOT Division
Job Code	9546(Post-Doctoral Associate)
Position Number	329965(Post-Doctoral Associate)
Status	010 Open
Business Unit	UMNHR(UMN BUSINESS UNIT)
Department	11776(MED Hema, Onc, Transplant Adm

Job Information

Created By	3665659(Katie Burger)
Created	01/14/2022
Opening to Fill	L(Limited Number of Openings)
Target Openings	1
Available Openings	1
Establishment ID	001(University of Minnesota)
Business Unit	UMNHR(UMN BUSINESS UNIT)
Company	UMN(UNIVERSITY OF MINNESOTA)
Department	11776(MED Hema, Onc, Transplant Adm
Status Code	010 (010 Open)
Status Reason	
Status Date	01/14/2022
Desired Start Date	
Encumb Date	
Projected Fill Date	
Date Authorized	01/14/2022
Referral Program ID	
Recruitment Type	
Area of Consideration	
Recruitment Contact	

Locations

Location Code	Location	Target Openings	Primary
TCEASTBANK	UMTC, East Bank	0	Yes

Positions

Position Number	Description	Primary
329965	Post-Doctoral Associate	Yes

Job Codes

Job Code	Description	Primary
9546	Post-Doctoral Associate	Yes

Staffing information

Region	USA
Schedule Type	Full-Time
Regular/Temporary	Regular
Shift	Not Applicable
Hours	40.00
Work Period	Weekly
Travel Percentage	Never or rarely
Supervisor Level	Non-Manager

Job Postings

Description	Posting Type	Post Date	Remove Date
Internet	External Posting	01/14/2022	
Internet	Internal Posting	01/14/2022	

Job Posting Descriptions

Visible	Internal and External
Description Type	About the Job
Description	The Division of Hematology, Oncology, & Transplantation has identified three diseases: sickle cell disease (SCD), Fanconi anemia (FA) and primary immunodeficiency (PID) for which we will use

	targeted genome engineering tools to correct the endogenous mutated locus. We hypothesize that efficient, site-specific editing of endogenous loci in large numbers of autologous HSC will enhance the efficacy of current genetic engineering. Each project addresses unique challenges in the gene therapy field, specifically, safe delivery, gene targeting efficiency, adverse off-target effects, absolute number of gene-modified HSC, and a plethora of host factors including immune response to gene modified cells and residual host HSC repopulation. The goal will be to achieve high-efficiency genetic modification with correction of biological function. A long-term goal is to develop gene editing delivery in vivo in murine models and ultimately in humans. This position will work with Drs. Vercellotti, Wagner, Belcher, Moriarity, Webber, and McIvor and will be assigned two or more research projects in which the individual will be responsible for progress based on the following: 40% Design and conduct experiments and maintain excellent, detailed documentation. 30% Analyze and interpret data, prepare figures for manuscripts and presentations, maintain expertise in the relevant literature. Communicate and meet with PIs. 20% Write manuscripts, progress reports, abstracts, assist with grant-writing. 5% Present data at lab meetings, local and international conferences. 5% Assist in laboratory management, inventory, ordering, organization, and other miscellaneous lab duties.
Visible Description Type	Internal and External Qualifications
Description	Required Qualifications: 1. A PhD, MD or equivalent degree with extensive research training in the biological sciences 2. Skills in basic biology laboratory skills including sterile techniques, and proper documentation/recordkeeping. 3. Experience with cell culture techniques including transfection and cell-based analysis of viability. 4. Expertise in molecular biology techniques including Protein, RNA and DNA isolation and handling for applications including immune-blotting. Preferred Qualifications: 1. Preference for understanding or knowledge of human and murine hematopoiesis 2. Preference for experience in murine stem cell transplants and physiology 3. Genome editing using CRISPR or similar techniques

4. Extracellular vesicle isolation
5. Interest in learning programming and online tools to examine and analyze sequencing data.
6. iPS culture and manipulation

Visible	Internal and External
Description Type	How To Apply
Description	Applications must be submitted online. To be considered for this position, please click the Apply button and follow the instructions. You will be given the opportunity to complete an online application for the position and attach a cover letter and resume. Additional documents may be attached after application by accessing your "My Job Applications" page and uploading documents in the "My Cover Letters and Attachments" section. To request an accommodation during the application process, please e-mail employ@umn.edu or call (612) 624-UOHR (8647).

Visible	Internal and External
Description Type	Diversity
Description	The University recognizes and values the importance of diversity and inclusion in enriching the employment experience of its employees and in supporting the academic mission. The University is committed to attracting and retaining employees with varying identities and backgrounds. The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. To learn more about diversity at the U: http://diversity.umn.edu.

Visible	Internal and External
Description Type	Employment Requirements
Description	Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify

finalists from employment.

Please note: All employees at the University of Minnesota are required to report complete vaccination against COVID-19 or submit documentation requesting a medical or religious exemption on their first day of employment. To learn more, please visit the University's COVID-19 Response webpage.

Visible	Internal and External
Description Type	About the U of M

Description

The University of Minnesota, Twin Cities (UMTC)

The University of Minnesota, Twin Cities (UMTC), is among the largest public research universities in the country, offering undergraduate, graduate, and professional students a multitude of opportunities for study and research. Located at the heart of one of the nation's most vibrant, diverse metropolitan communities, students on the campuses in Minneapolis and St. Paul benefit from extensive partnerships with world-renowned health centers, international corporations, government agencies, and arts, nonprofit, and public service organizations.