There are immediate Senior Research Associate opportunities available within the Center for Human Disease Modeling (CHDM). Dr. Nicholas Katsanis, Director, along with faculty member Erica Davis, are inviting applications from candidates who will be considered for leadership roles in a wide range of interdisciplinary projects funded by NIH, private foundations and industry collaborations.

Our Center offers a unique, project based atmosphere that is highly collaborative in a shared resource setting. The ideal candidates will be accomplished, highly motivated, and creative scientists with interests in at least one of the three following areas: 1) understanding the architecture of human genetic disease; 2) investigating the mechanisms underlying disease processes and pathomechanism, and 3) identification of novel therapeutic paradigms for inherited disorders. The Senior Research Associates will spend 75% of their effort leading small teams of technicians and trainees, providing them with both supervision and mentorship, on projects under the direction of the faculty members. The remainder of their time will be pursuing their own research projects. Candidates will have the opportunity to work with talented trainees and staff utilizing resources including unique patient cohorts; cell-based, zebrafish and/or mouse models; and cutting-edge molecular and imaging technologies in a state-of-the art facility.

**Work Performed:**
The Center offers a unique, project-based atmosphere that is highly collaborative in a shared-resource setting. The ideal candidate for this position will perform the following duties:

- Collaborate with senior staff to perform experimental design, data analysis and interpretation to assess the integrity of whole exome sequencing data; use filtering criteria to narrow candidate causal genes and variants; and design assays in zebrafish to determine the relevance of genetic findings to disease;
- Interact with research animals, which will include zebrafish embryo manipulation, immunostaining and microscopy, and analysis of data generated with such models;
- Interact with a team of trainees, technical staff, and faculty members and train staff members on laboratory techniques, Standard Operating Procedures, and equipment specific requirements;
- Assist faculty, post-docs and students in the development and execution of new research procedures and techniques and administer and coordinate the technical activities and infrastructure related to the scientific research projects in the Center’s laboratories;
- Interact regularly with external project sponsors and collaborators, including government agencies, academic centers, advocacy organizations, and health care organizations; Develop, compose, and revise Standard Operating Procedures as required;
- Maintain liaison with investigators, collaborators, research personnel and staff to ensure compliance with established practices, to implement new policies and to keep employees abreast of current changes and standards;
- Solve specific operating problems and improve technical activities and advise on technical procedures, techniques and equipment, and maintain conformance with specific operational standards, and
- Perform other duties as assigned by Center leadership including assistance with reports, manuscripts, and grant proposals.
Educational Requirements:
The ideal candidate for this position will possess a PhD in human genetics, biology, zoology, botany or other life science related field.

Work experience, knowledge and understanding:
The ideal candidate for this position will possess the below minimum work experience, knowledge and understanding:

- Five (5) years of postdoctoral training experience including next generation sequencing data analysis and/or interpretation;
- Ability to interact with research animals, including zebrafish embryo manipulation, immunostaining and microscopy, and analysis of data generated with such models;
- Demonstrated data generation and experimental design;
- Ability to exercise good judgment and initiative;
- Ability to function independently and in close cooperation with others;
- Ability to maintain confidentiality and to manage confidential information appropriately;
- Ability to manage a variety of tasks simultaneously and follow-up on details, and
- Command of the English language.

The competitive work experience, knowledge and understanding:

- Exceptional organizational skills and attention to detail.
- Ability to develop, compose, and revise Standard Operating Procedures;
- Proficient in Microsoft Office and research software;
- Good Internet searching skills;
- Experience managing complex projects;
- Exceptional interpersonal skills, and
- Excellent written and oral communication skills (English language).

The preferred work experience, knowledge and understanding for this position are:

- Prior postdoctoral work with next generation sequencing data and/or experience with laboratory model organisms;
- Prior experience working with Principal Investigators (PIs) conducting laboratory research with zebrafish embryo manipulation; immunostaining and microscopy, and analysis of data generated with such models;
- Prior experience working with interdisciplinary teams in academic, research and team science settings.
- Demonstrated understanding of the core principles of both quantitative and qualitative research (i.e. understanding of the key considerations when selecting and developing a methodological approach to a question);
- Quantitative and/or qualitative research experience with skills in questionnaire design, research methods, and data handling, analysis and reporting;
- Project and staff management experience;
- Strong Internet searching skills with the capacity to learn other types of software programs;
- High level of competency in Microsoft Word, Excel, PowerPoint and Outlook;
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Center for Human Disease Modeling
Job Posting – Senior Research Associate

- Demonstrated ability to analyze highly complex numerical and written data, assess options, draw appropriate conclusions and make recommendations;
- Demonstrated ability to interact regularly with external project sponsors and collaborators, including government agencies, academic centers, advocacy organizations, and health care organizations;
- Demonstrated ability to solve specific operating problems and improve technical activities and advise on technical procedures, techniques and equipment, and maintain conformance with specific operational standards, and
- Complete fluency in written and oral English required.

Appointment Terms:
This is a full time, 12-month position. Salary is commensurate with experience.

To Apply:
Please upload a single PDF document that includes a cover letter, resume, and the names and contact information for three professional references to chdmjobs@duke.edu. The Subject Line of the e-mail should read as follows: Senior Research Associate Job Position – Applicant’s Last Name, Applicant’s First Name. Please be sure the application materials demonstrate how you meet the qualifications for this position. Screening will begin immediately. Employment of the successful candidate will be contingent upon the successful completion of Duke’s employment process.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual’s age, color, disability, genetic information, gender, gender identity, national origin, race, religion, sexual orientation, or veteran status.