**Job Title: Physiology Research Associate (9612C)- #26487**

**Job ID: 26487**

**Department: Integrative Biology**

**Location: Main Campus-Berkeley**

**Full/Part Time: Full-Time**

**Regular/Temporary: Regular**

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Since 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world. Berkeley’s culture of openness, freedom and acceptance—academic and artistic, political and cultural—make it a very special place for students, faculty and staff.  Berkeley is committed to hiring and developing staff who want to work in a high performing culture that supports the outstanding work of our faculty and students. In deciding whether to apply for a staff position at Berkeley, candidates are strongly encouraged to consider the alignment of the Berkeley Workplace Culture with their potential for success at [http://jobs.berkeley.edu/why-berkeley.html](https://urldefense.proofpoint.com/v2/url?u=http-3A__jobs.berkeley.edu_why-2Dberkeley.html&d=DwMFaQ&c=B_W-eXUX249zycySS1AyzjABMeYirU1wvo9-GmMObjY&r=r5wuDE7fJ5nb5QXM8vt43A&m=5DqXNSdLksXl6iurOKzL46CJAkQjKYa7CJ15HjOR_cE&s=juoA7x5B1-qkPcsAPWN-mqDUBY-tZlkjnWNCUo24xPI&e=). | |  | **Application Review Date** | |  | The First Review Date for this job is: March 11, 2019 | |  | **Departmental Overview** | |  | The Exercise Physiology Laboratory under direction of Professor George A. Brooks conducts basic and applied research on substrate partitioning in men and women. Recently, Professor Brooks along with Thomas Carlson (MD, UCB) and Umesh Masharani (MD, UCSF) have been awarded a research grant from the NIH to evaluate aspects of the effects of aging, exercise, and exercise training on mitochondrial biogenesis, energetics and dynamics in striated muscle (cardiac, red, white, intermediate), and white adipose tissue (WAT) as those tissues affect metabolic flexibility.   Human use protocols will involve exercise stress testing as a screening procedure and Oral Glucose Tolerance Tests (OGTTs) with tracers aboard for evaluation of metabolic flexibility. Principal Investigator (Pl), Professor Brooks is in need of a Physiology Research Associate to work with SRA Michael Horning and Doctors Carlson and Masharani to take tissue biopsies, and, if necessary, insert arm vein and back of the hand venous catheters for tracer infusion and blood sampling, respectively.   The successful Physiology Research Associate will coordinate activities with the Pl, Doctors Carlson and Masharani, SRA Horning, as well as post-doctoral fellows, graduate and undergraduate students in the Brooks, Exercise Physiology Lab. As well, it would be advantageous if the successful candidate were medically licensed to place catheters for isotope tracer infusion and serial blood sampling such as medical doctor (MD), registered nurse (RN), or Physician Assistant (PA). The successful candidate will be expected to work effectively with his/her counterpart working on cultured cells, lab rodents and cells and tissues isolated from them. | |  | **Responsibilities** | |  | • Laboratory management including equipment maintenance, ordering of supplies and maintenance of stock laboratory materials.  • Human subject recruitment; evaluation of study participant health history and dietary questionnaires, exercise stress testing and dietary assessment of potential participants as described above.  • Training of laboratory personnel involved in human experimentation in health safety procedures, maintain the Chemical Hygiene Plan, maintain up to date training in laboratory safety. Obtain CITI and EH&S human research training for her-/himself and others involved in human experimentation.  • Set up for and conduct exercise stress testing and tracer-modified OGTTs to the extent permitted by the CPHS, process blood samples for metabolite, hormone and GC/MS analyses, the latter to be conducted by SRA Horning.  • Conduct standard laboratory analyses of blood and tissue samples including spectrophotometric, colorimetric, enzymatic HPLC, ELISA, and RIA analyses of metabolites and hormones.  • Participate in data analysis and drafting of manuscripts for publication.  • Responsibility for compliance with EH&S, and CPHS requirements in the laboratory. Work with other Laboratory SRAs, graduate and undergraduate students, post-doctoral fellows and visiting scientists to make a cohesive, functioning and happy workplace | |  | **Required Qualifications** | |  | • Experience with human physiology or exercise stress testing and exercise physiology research. • Demonstrate technical scientific personnel management skills.  • Competent with exercise stress testing certified by the ACSM and Exercise Stress Test Technologist, certified as a phlebotomist or to place venous catheters and take blood samples, familiarity with Laboratory Operations and Safety and safe and appropriate handling of biological specimens. • Demonstrated ability of assisting physician investigators in muscle and adipose biopsy sampling.  Education/Training:  • AB or AB in a related field with several years relevant research experience or equivalent combination of education and/or training. | |  | **Preferred Qualifications** | |  | • Experience tissue sampling, tissue fragmentation, cell an mitochondrial isolation and respiration, identification of regulatory proteins and genes by RT-qPCR, Western and Northern blotting, ELISA, and microscopy, and doing or working with others using mass spectrometry RNAseq. • CITJ Certification for human subject experimentation, UC or related trainings: Lab Safety Fundamentals, Biosafety, Hazardous Waste Program, Spill Response, and Blood Borne Pathogens. | |  | **Salary & Benefits** | |  | Salary rate will be commensurate with experience.  For information on the comprehensive benefits package offered by the University visit:   [http://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html](https://urldefense.proofpoint.com/v2/url?u=http-3A__ucnet.universityofcalifornia.edu_compensation-2Dand-2Dbenefits_index.html&d=DwMFaQ&c=B_W-eXUX249zycySS1AyzjABMeYirU1wvo9-GmMObjY&r=r5wuDE7fJ5nb5QXM8vt43A&m=5DqXNSdLksXl6iurOKzL46CJAkQjKYa7CJ15HjOR_cE&s=VhYqsiidezI2MwZkRyN7KJtDIvA49RF1Kyd-u4ZCpAw&e=) | |  | **How to Apply** | |  | Please submit your cover letter and resume as a single attachment when applying. | |  | **Equal Employment Opportunity** | |  | The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. For more information about your rights as an applicant see: [http://www.eeoc.gov/employers/upload/poster\_screen\_reader\_optimized.pdf](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.eeoc.gov_employers_upload_poster-5Fscreen-5Freader-5Foptimized.pdf&d=DwMFaQ&c=B_W-eXUX249zycySS1AyzjABMeYirU1wvo9-GmMObjY&r=r5wuDE7fJ5nb5QXM8vt43A&m=5DqXNSdLksXl6iurOKzL46CJAkQjKYa7CJ15HjOR_cE&s=0ucgQgkExlFhy0ZVOFsAQOIQJ9UVEQF_vM-Jf5AnW5M&e=) For the complete University of California nondiscrimination and affirmative action policy see: [http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct](https://urldefense.proofpoint.com/v2/url?u=http-3A__policy.ucop.edu_doc_4000376_NondiscrimAffirmAct&d=DwMFaQ&c=B_W-eXUX249zycySS1AyzjABMeYirU1wvo9-GmMObjY&r=r5wuDE7fJ5nb5QXM8vt43A&m=5DqXNSdLksXl6iurOKzL46CJAkQjKYa7CJ15HjOR_cE&s=yXKc8kU4YsGGXZlCsHRCa10it0C9pxHTBBqGqwN4DdE&e=) | | | | |