A postdoctoral research associate position is available to work in the area of maize molecular genetics and physiology in the Department of Genetics and Biochemistry at Clemson University (http://www.clemson.edu/genbiochem/people/rsekhon.php). The position will be focused dissecting genetic architecture of key physiological traits in maize using a combination of genomic, transcriptomic, and molecular genetics approaches. Specifically, we are interested in understanding the molecular detriments of source-sink communication and ensuing CHO partitioning, and role of such cross-talk in senescence. Substantial data is already available for candidate to analyze, build upon, and publish quickly. Responsibilities will include independent research in the generation and analysis of phenotypic and next generation sequencing data, dissection of complex trait architecture using appropriate genomic approaches, functional validation of candidate genes, and communication of results in peer-reviewed journals, conferences presentations, and project reports. Clemson University has excellent group of faculty with diverse expertise and the candidate will have ample opportunities to collaborate with experts in informatics, metabolomics, population/quantitative genetics, and comparative genomics. The candidate will have access to state-of-the-art high performance computing resource. The candidate will be eligible (and encouraged) to write federal grants for advancement of his/her career.

**Qualifications:** A Ph.D. in molecular genetics, plant physiology, plant genomics or related discipline. Strong and proven expertise in molecular genetics and plant physiology is a must. Expertise in quantitative genetics with programming skills for statistical analyses (R/SAS), Unix environment, and next generation sequence data analysis with relevant programming skills (Perl/Python) is a plus. Excellent interpersonal and communication skills are required. Demonstrated ability to publish original research in peer-reviewed journals is a must.

**Preferred Qualifications:** A record of publication in the field of plant molecular genetics and/or genomics. Knowledge of plant physiology and metabolism. Experience with the manipulation and analysis of large data sets derived from next-gen sequencing and phenotyping.

**Pay & work schedule:** Standard hours: 37.5. Salary will be commensurate with credentials and experience and the position comes with comprehensive benefits. This position is funded for three years and contingent to performance review and availability of funds after each year.

**How to Apply:** A letter of interest in the position, C.V., and contact information for three references should be emailed to Rajan Sekhon at sekhon@clemson.edu. Review of applications will begin immediately and continue until the position is filled.