**Department of Horticultural Science - North Carolina State University**

**Post-Doctoral Research Associate Available**

Requested Salary: Commensurable with experience  
Term Length: 1 year with option to renew  
Requested Appointment Date: 05/01/2016  
Contract Type: 12-month with the option to extend for subsequent year(s) upon satisfactory performance

FTE: 1.00

**Essential Job Duties:**

A Postdoctoral position in plant genomics and bioinformatics is available to join a multidisciplinary blueberry genomic and breeding project at the North Carolina State University (NCSU) located in the Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. The successful candidate will focus on using Next Generation Sequencing (NGS) based genomic tools to study differentially expressed genes during flower and fruit development, and to generate genomic resources such as genetic linkage maps using genotyping by sequencing technique.

The candidate will be performing NGS-based genomic (e.g., Illumina and PacBio). The candidate must be familiar with DNA and RNA isolation, qualitative and quantitative PCR, NGS library construction, and basic Linux, Perl, Python and MySQL scripting. Experience with phylogenomics, evolutionary and comparative genomics would be highly beneficial. Proficiency to publish findings in peer-reviewed journals is essential.

**Other Responsibilities:**

The candidate should demonstrate the ability to work independently and creatively. He/She will provide support to the peers and collaborative partners, have good communications skills, and be able to articulate clearly the scientific and technical needs in the field, set clear goals and work within an interdisciplinary setting.

**Qualifications/Education:** Candidates should have a PhD in molecular biology, genetics or related discipline, with experience in plant molecular genetic approaches, genomics and/or comparative genomics. Experiences in NGS library construction, data processing and analysis, and biostatistics analysis is essential.

**How to Apply:** To apply, send CV, statement of research interests, contact information for 3 references to Dr. Hamid Ashrafi [hamidashrafi@ncsu.edu](mailto:hamidashrafi@ncsu.edu) if you have any question please call (919) 515-1216.