

## 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: 09/01/2016

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.

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## HUMAN RESOURCES

### Contact Us:

Human Resources  
2711 Sullivan Drive  
Raleigh, NC 27695

Email:

[employment@ncsu.edu](mailto:employment@ncsu.edu)

Phone: 919-515-2135

Fax: 919-515-7543

## Post Doc Research Scholar

Below you will find the details for the position including any supplementary documentation and questions you should review before applying for the opening. To apply for the position, please click the **Apply for this Job** link/button.

If you would like to bookmark this position for later review, click on the **Bookmark** link. If you would like to print a copy of this position for your records, click on the **Print Preview** link.

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**Please see Special Instructions for more details.**

Applicant required documents: Cover Letter, CV, Contact Information for References

## Posting Details

### Posting Information

Vacancy Type	Post Doc
Is Internal Transfer Only	No

<b>Time-Limited Appointment Length</b>	No
<b>If Yes, Appointment Length</b>	
<b>Working Title</b>	Post Doc Research Scholar
<b>Anticipated Hiring Range</b>	\$38,000 - \$40,000
<b>Position Number</b>	00105732
<b>Work Schedule</b>	40 hours/week (flexible with occasional after hours and weekend hours necessary)
<b>Full Time Equivalent (FTE)</b>	1.00
<b>Department</b>	111501 - Horticultural Science
<b>Department</b>	111501 - Horticultural Science
<b>Job City &amp; State</b>	Raleigh, NC
<b>Essential Job Duties</b>	This Post Doc will use Next Generation Sequencing (NGS) based genomic tools to study differentially expressed genes during flower and fruit development. The post doc will also generate genomic resources such as genetic linkage maps using genotyping by sequencing technique.
<b>Other Work/Responsibilities</b>	The post doctoral scholar will also provide support to peers and collaborative partners.
<b>Minimum Experience/Education</b>	Ph.D. or equivalent doctorate (e.g., M.D., D.V.M., Sc.D.) in appropriate field awarded no more than five (5) years from initial date of postdoctoral appointment.
<b>Departmental Required Skills</b>	<ul style="list-style-type: none"> <li>• PhD in molecular biology, genetics, computational biology or related discipline, with experience in plant molecular genetic approaches, genomics and/or comparative genomics.</li> <li>• Experiences in NGS library construction, data processing and analysis, and biostatistics analysis.</li> <li>• Ability to work independently and creatively.</li> <li>• Good communications skills, and able to articulate clearly the scientific and technical needs in the field.</li> <li>• Set clear goals and work within an interdisciplinary setting.</li> </ul>
<b>Preferred Experience, Skills, Training/Education</b>	<ul style="list-style-type: none"> <li>• Two years post PhD experience in bioinformatics, plant breeding or computational biology.</li> </ul>
<b>Required License or Certification</b>	<ul style="list-style-type: none"> <li>• Valid NC driver's license or ability to obtain one within 2 months.</li> </ul>
<b>Special Instructions</b>	Applicant required documents: Cover Letter, CV, Contact Information for References
<b>Job Open Date</b>	07/28/2016
<b>Must Be Open Until</b>	

***Positions will be posted until 5:00 PM ET on this date. Positions remaining posted after this date are still accepting applications but may close at any time.*** 08/11/2016

**Is this position partially or fully funded on ARRA stimulus monies?** No

**Proposed Hire Date** 09/01/2016

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

**AA/EOE**

Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148. Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If highest degree is from an institution outside of the U.S., final candidates are required to have their degree verified at [www.wes.org](http://www.wes.org). Degree must be obtained prior to start date.

NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.

## Supplemental Question

Required fields are indicated with an asterisk (\*).

1. Do you have (or will you have by date of hire) a PhD in molecular biology, genetics, computational biology or related discipline?
  - ☐ Yes
  - ☐ No
2. Do you have at least 2 years of post PhD experience in bioinformatics, plant breeding or computational biology?
  - ☐ Yes
  - ☐ No
3. Please describe your experience in plant molecular genetic approaches, genomics and/or comparative genomics.

(Open Ended Question)

4. Please describe your experience (if any) in NGS library construction, data processing and analysis, and biostatistics analysis.

(Open Ended Question)

5. Do you have a valid NC Driver's license or the ability to obtain one within 60 days of your start date?

- Yes
  - No
6. \* How did you learn of this opportunity?
- NCSU Website
  - NCSU Executive Search Services
  - Monster.com
  - CareerBuilder.com
  - InsideHigherEd.com
  - Other Online Job Board
  - Carolina Job Finder / Employment Guide
  - Job / Career Fair
  - The Chronicle of Higher Education
  - Professional Journal
  - Print Advertisement (Newspaper / Periodical)
  - Professional Organization
  - Direct Contact from NCSU HR Representative / Recruiter
  - NCSU Employee Referral
  - Social Media (LinkedIn, Twitter, Facebook, Other)
  - Other
7. If you learned about this vacancy from "other source" or "other website", please provide the source.

(Open Ended Question)

## Application Materials Required

### Required Documents

1. Cover Letter
2. Curriculum Vitae
3. Contact Information for References

### Optional Documents

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North Carolina State University Raleigh, NC 27695 Phone: (919) 515-2011