

# Pioneer Hi-Bred International

<b>Requisition #</b>	14091BR
<b>Title</b>	Senior Research Associate
<b>Functional Unit</b>	Research - Trait Discovery & Technologies
<b>City</b>	Johnston
<b>State</b>	IOWA
<b>Country</b>	United States (USA)
<b>Position Type</b>	Full-Time Regular
<b>Hiring Manager Title</b>	Research Scientist
<b>Job Description</b>	<p>Pioneer is seeking a Senior Research Associate to support the development and validation of new greenhouse bioassays that are predictive of crop performance under water stress in field environments. This role will have specific accountability for making assay recommendations, establishing success criteria for specific assays, implementing assays, trouble-shooting issues and helping to deliver validated assay that can move into our high through-put screen format. This role will require significant interactions with researchers in our Agronomic Traits group and cross-functionally with researchers in Pioneer's high throughput FASTCorn facility, with field researchers managing Pioneer's drought screening and field phenotyping efforts, with an analytic group responsible for molecular phenotyping, and with colleagues in the DuPont Agricultural Biotechnology discovering and developing drought tolerance leads.</p>
<b>Duties/Responsibilities</b>	<p>Develops and validates new drought bioassays for corn in greenhouse environments.</p> <p>Provides hands on validation of molecular, biochemical and physiological assays reflective of drought performance.</p> <p>Interfaces with researchers in Pioneer's FAST corn facility to ensure that new assays are compatible with high throughput automated plant growth infrastructure.</p> <p>Interfaces with gene discovery and optimization researchers to ensure that appropriate greenhouse bioassays are available to characterize the performance of candidate genes.</p> <p>Interfaces with field based researchers to ensure that greenhouse bioassays are relevant to field based assays and field performance.</p> <p>Contribute to the development meaningful new greenhouse assays that can predict performance of corn hybrids under drought stress in field environments.</p> <p>Design biologically relevant experiments that lead to robust experimental design while collecting a diverse array of phenomic and analytical data types.</p> <p>Definition of assay protocols and assay performance criteria.</p> <p>Decisions about how to develop and validate corn based greenhouse assays and what types of data are collected from experiments.</p> <p>Decision on how to best correlate assays and data to predict the performance of commercial hybrids grown in the field.</p> <p>Decisions about what types of assays are most adaptable to high</p>

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### **Education and Experience**

throughput automated greenhouse resources.

Bachelor's degree in biological sciences, preferably specializing in plant physiology, agronomy, biochemistry, phenomics, molecular biology or scientific related field and minimum of 2 to 4 years of industry related experience is required. Master's degree in in biological sciences, preferably specializing in plant physiology, agronomy, biochemistry, phenomics, molecular biology or scientific related field and 0 to 2 years of industry related experience is preferred.

### **Competencies**

We are seeking a highly motivated individual with broad scientific knowledge in the application of molecular, physiological, and biochemical techniques to establish drought based assays for screening genes in a greenhouse environment. An understanding of assay development and criteria needed for the successful development and deployment of a HTP assay is important. Broad scientific knowledge of genetics, molecular biology, plant physiology, stress biology, phenomics, metabolomics, and related sciences is desired. Working knowledge of physiological processes associated with the biology of a drought response in plants is important. Research experience with field and controlled environments is a plus. An ability to work in a cross-functional team settings with strong interpersonal, organizational, technical leadership and communication skills is also necessary.

For more information, or to apply online go to:

[http://www.pioneer.com/home/site/about/template.PAGE/careers/job-search-and-apply/?javax.portlet.tpst=8001e8216af91a4267106710310093a0&javax.portlet.prp\\_8001e8216af91a4267106710310093a0=action%3DviewJobs%26org.springframework.web.portlet.mvc.ImplicitModel%3Dtrue&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken](http://www.pioneer.com/home/site/about/template.PAGE/careers/job-search-and-apply/?javax.portlet.tpst=8001e8216af91a4267106710310093a0&javax.portlet.prp_8001e8216af91a4267106710310093a0=action%3DviewJobs%26org.springframework.web.portlet.mvc.ImplicitModel%3Dtrue&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken)