Soil Rhizosphere Chemist

Position Information

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<tr>
<td>Working Title</td>
<td>Soil Rhizosphere Chemist</td>
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<tr>
<td>Department/College/Unit</td>
<td>- Agronomy &amp; Horticulture-0827</td>
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<tr>
<td>Requisition Number</td>
<td>F_150141</td>
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<tr>
<td>Posting Open Date</td>
<td>07/07/2015</td>
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<td>Application Review Date</td>
<td>09/15/2015</td>
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<tr>
<td>Posting Close Date</td>
<td>09/14/2015</td>
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<tr>
<td>Open Until Filled</td>
<td>No</td>
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Description of Work

This is a 9-month tenure leading position at the rank of Assistant Professor located at the University of Nebraska Lincoln in the Department of Agronomy and Horticulture with an 80% research and 20% teaching appointment. The incumbent will be expected to develop a high-impact research and teaching program that is recognized nationally and internationally in soil chemistry, particularly in the context of soil nutrient supply and plant uptake, is essential to developing novel sustainable management systems. The incumbent must understand the chemical and physical properties of soils and their spatial and temporal variability also provide needed context to fully understand how plant roots interact with soil microbes. Investigation of processes that occur in the rhizosphere, expertise in the newest methods for soil analysis as well as interest in the development of nutrient sensor technologies are desirable. A soil rhizosphere chemist will be part of an interdisciplinary team including a root stress biologist, soil microbiologists, entomologists, rangeland ecologist, cropping systems experts, process modelers, statisticians, plant physiologists and biochemists which contributes to the Agricultural Research Division and the College of Agriculture Sciences and Natural Resources.

The incumbent will seek and establish effective disciplinary and transdisciplinary collaborations including effective integration with research groups and educational programming. Connect with stakeholders, agency and/or industry partners to strengthen research/educational programming. Effectively obtain and leverage external and internal support (grants, fee revenue, etc.) for research/teaching programming. Mentor graduate students. Publish in high-quality, high-impact peer-reviewed journals, and participate in scientific meetings and other appropriate professional activities. Translate research-based information into learner-centered products. This includes creating scholarly, innovative, and high impact learning programs and tools. Identify issues and opportunities focused on learner needs and emerging regional and national issues with international relevance. Measure the impact of the incumbent’s programs and communicate results to administrators, stakeholders, users, and media. Mentor colleagues through their professional development.

The incumbent will be expected to average .20 FTE as determined by the CASNR Academic Appointment Guidelines. The incumbent is expected to teach contribute to the teaching needs of the Department. Teaching responsibilities will include an undergraduate or graduate soil science course in such areas as soil rhizosphere chemistry, nutrient modeling, or advanced soil fertility, as well as advising/mentoring undergraduate and graduate students. Regular participation in graduate seminars is expected and teaching students through online technologies.
is encouraged. Specific course assignments may be changed over time based on Academic Unit need. The incumbent will contribute, as an effective scholar and citizen of a land-grant institution, to the integrated mission of home units (e.g., Department, Center), including supporting student recruitment and IANR science literacy initiative, and beyond.

**Minimum Required Qualifications**  
Ph.D. degree or Ph.D. in place by date of hire in Soil Science with emphasis on biologically mediated soil chemistry such as nutrient transformations, nutrient availability and spatial and temporal changes in nutrient form, and availability near and around plant roots.

**Preferred Qualifications**  
Preferred qualifications include post-doctoral experience, evidence of a strong publication and grant record, teaching experience, excellent communication skills, experience working in multi-disciplinary teams; and potential for growth into a leadership role.

**Pre-Placement Driving Record Review Required**

**Criminal History Background Check Required**

**Posted Salary**

**How to Apply**  
To review the complete position details and apply for this position, go to: http://employment.unl.edu, search for requisition number F_150141. Click on "Apply to this Job." Attach a cover letter, a CV, and an overview of research and teaching experience and interests. Arrange for 3 letters of reference to be sent via e-mail to: kdanforth2@unl.edu.

**For questions or accommodations related to this position contact**  
Kara M. Danforth

**Job Category**  
Faculty Tenure/Tenure Leading

**Job Category (old)**  
Faculty Tenure/Tenure Leading

**Job Type**  
9 Month

**Position funded by grant or other form of temporary funding?**  
No

**If Temporary, indicate end date**

**Planned Hire Date**  
as arranged

**Appointment End Date**  
none

**Supplemental Questions**

Required fields are indicated with an asterisk (*).

**Required Documents**

Required Documents
1. Cover Letter
2. Curriculum Vitae
3. Other Document

Optional Documents