The Department of Statistics and Nebraska Extension at the University of Nebraska-Lincoln (UNL) Institute of Agriculture and Natural Resources (IANR) are seeking applications for an Open Rank Science Literacy and Data Analytics Extension Professor position. This 12-month (calendar year), non-tenure track appointment will lead development and delivery of innovative educational strategies to engage youth in both formal and non-formal learning environments. It is expected this will result in increased student interest in content and cognate careers related to Statistics, Data Analytics, Data Science, and Science Literacy. The apportionment is 30% teaching and 70% extension. This position will be located on the University of Nebraska-Lincoln campus.

**Extension Responsibilities**

This position will create statewide programming focusing on improving science literacy through developing engaging learning experiences in data analytics for youth in non-formal settings as well as professional development for those interested in developing science literacy skills through data analytics among others.

Responsibilities include:
- Creation, delivery, and evaluation of curriculum/learning modules/programming designed to engage youth in problem solving and thinking that uses large data sets and data analytics – examples include:
  - Helping youth explore how algorithms are used by social media to track user behavior.
  - Helping youth build an IoT device that monitors soil moisture, ambient temp + soil nitrogen + light, then sends a stream of data to the cloud. Youth learn to analyze data, make predictions, and then modify to test the prediction. These steps could be applied to several different areas like water quality, animal health, climate, wearables, etc.
  - There would be similar applications in entrepreneurship both on the product development side and product placement.
- Integrating extension education in Science Literacy with existing CASNR programs (such as food, energy, water and societal systems, FEWS2) and other UNL initiatives (such as Nebraska Now).
- Providing professional development for staff and volunteers so they can engage young people in data analytics programming.
- Engaging youth in data analytics and increasing their capacity to see data analytics as a career.
- Engaging with other units such as the Center for Science Math and Computer Education to offer courses such as STAT 811T, 812T either remote or elsewhere in the state. This could include developing a STAT 810T for elementary school teachers and/or revising STAT 380 to serve the needs of future 9-12 mathematics teachers better.

Target audiences include PK-12 formal and non-formal education, faculty in higher education, university partners (businesses, educational entities, etc.), and the general public. The successful candidate will work with faculty across the UNL campus, especially those within Statistics, to provide leadership in science literacy programming for non-formal education and extension; develop outreach activities to engage Nebraska youth; obtain and lead externally funded projects; and contribute to moving UNL to a position of national leadership in science literacy.

**Teaching Responsibilities**

The classroom teaching portion of the position is focused on undergraduate courses in the Statistics Department. It is anticipated that this classroom teaching in Lincoln will be in one semester; extension teaching will be aimed statewide during the other months of the appointment. Teaching is understood to include course restructuring, curriculum development, as well as teaching in the classroom and other settings. The goal is to ensure that the education we offer meets current and future requirements of statistics graduates and keeps up with, if not advances, positive trends in the field.

Specific responsibilities include:
- Re-imagining and restructuring Statistics service courses (e.g., STAT 380) so they meet current requirements and reflect recent trends in statistical thinking.
• Supporting the roll out and development of new majors offered by the Statistics Department, so they are up to date, or lead, trends in the field to enable the department to meet its growth goals.
• Evolving and building a unique area of expertise for Nebraska and IANR that combines data analytics and non-formal/non-classroom education.

The incumbent is expected to maintain a high impact, nationally and internationally recognized, externally supported extension and teaching program contributing as an effective scholar and citizen to the integrated (extension, research, and teaching) land-grant mission of IANR, including supporting student recruitment. Collaboration is expected with faculty members across the UNL campus, and beyond, to provide synergistic leadership in the pedagogy of youth development programming for non-formal science education and extension.

In the area of work covered by the position, the incumbent is expected to seek and establish effective disciplinary and trans-disciplinary collaborations including integration with local stakeholders, complementary research groups, extension teams, educational programs, and other partners. The incumbent is expected to accept committee assignments, reporting responsibilities, and other special ad hoc assignments as requested at the administrative unit, college/division, institute, and/or university levels. Specific duties such as course and other teaching-related assignments may vary over time based on IANR priorities.

The successful candidate must have a Ph.D. in Statistics, data science, engineering, or a closely related field; computational proficiency with multiple software platforms; demonstrated ability to create programming and deliver classroom teaching; and excellent communication skills.

Preference will be given to applicants with experience creating and delivering instruction outside of traditional graduate or undergraduate university settings; experience and desire to work as a member of a team; and interest in working with diverse or under-represented communities or groups.

Review of applications will begin May 16, 2022 and continue until the position is filled or the search is closed. To view details of the position and create an application, go to https://employment.unl.edu, requisition F_220065. Click “Apply to this job” and complete the information form. Attach 1) a letter of interest that describes your qualifications for the position, anticipated contributions, and vision; 2) a statement of the value you place on diversity and your anticipated contributions to creating inclusive environments in which every person and every interaction matters (2 page maximum; see https://ianr.unl.edu/ongoing-searches for guidance in writing this statement); 3) a detailed curriculum vitae; and 4) contact information for three (3) professional references. References will only be requested of final candidates.

Recognizing that diversity within a context of inclusivity enhances creativity, innovation, impact, and a sense of belonging, the Institute of Agriculture and Natural Resources (IANR), the Department of Statistics, and Nebraska Extension are committed to creating learning, research, Extension programming, and work environments that are inclusive of all forms of human diversity. We actively encourage applications from and nominations of qualified individuals from underrepresented groups.

As an EO/AA employer, qualified applicants are considered for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See https://www.unl.edu/equity/notice-nondiscrimination.