North Dakota State University invites applications for an Assistant Professor in Precision Agriculture. This is a 12-month, tenure track, 40% teaching and 60% research position in the Department of Agricultural and Biosystems Engineering; an academic unit of the College of Agriculture, Food Systems, and Natural Resources.

This position is an opportunity to develop critically-needed research and teaching programs in precision agriculture—specifically sensors, automation systems, robotics, unmanned aerial systems (UAS), and management of big data in agriculture. This position is important to the agricultural machinery industry; research is needed to develop sensors, robots, and machinery to assist in all agricultural operations, from tillage to harvesting. Crop producers and farm managers need improved methods to derive actionable intelligence from big data gathered from multiple sources. Application of data science to agriculture is key to producing actionable intelligence. This position is important to the precise delivery of crop inputs; research is needed on monitoring and variable rate application technologies for managing soil and crop health. Responsibilities include:

- Develop a well-recognized and grant-supported research program in precision agriculture, addressing the research needs of the state and region;
- Develop and teach precision agriculture courses needed in a new major and minor in precision agriculture, as well as in the existing major in agriculture systems management;
- Establish collaborative partnerships with researchers in other NDSU units, industries and other institutions;
- Advise and mentor undergraduate and graduate students;
- Publish research findings;
- Serve on departmental, college, and university committees; and serve the profession.

Minimum Qualifications:

- Ph.D. in precision agriculture, agricultural systems management, or agricultural engineering, or a Ph.D. in a related scientific or engineering field (degree must be completed before assuming the position);
- Interest and ability to develop a nationally-recognized, externally-funded research program and a high quality teaching program in the broad areas of precision agriculture, with emphasis in one or more areas such as UAS, agricultural robotics, or management of big spatial data in agriculture;
- Interest in and ability to mentor undergraduate and graduate students;
- Ability to work independently and as a multidisciplinary team member;
- Ability to communicate effectively including excellent oral and written communication skills.
Preferred Qualifications:

- Demonstrated record of scholarship, including experience in conducting field and laboratory research, and publishing research findings
- Demonstrated experience in educational programming, especially at a university
- Operational knowledge and understanding of advanced farming systems, including precision agriculture machinery and UAS
- Understanding of Northern Plains agriculture
- Understanding of agronomy, soil science and crop protection
- Experience in preparing successful competitive research proposals
- Leadership, including experience in managing teams and supervising technical support staff

The department has strong relationships with local companies, such as John Deere, Case New Holland, Microsoft, machinery dealerships, UAS companies, agronomy companies, as well as many other local companies.

Salary: The position offers a competitive salary and benefits package.

Application Deadline: Initial screening of applicants will begin November 8, 2018 and continue until a suitable candidate is selected. Applications received by the screening date will be ensured full consideration.

Special Instructions to Applicants:

The application should include the following:

- Letter of application showing how all minimum qualifications are met, and highlighting those preferred qualifications that are met
- Statement of research interests and goals (1-2 pages)
- Statement of teaching interests and goals (1-2 pages)
- Detailed curriculum vitae
- Transcripts of coursework for all university degrees
- Names, titles, addresses, phone numbers and e-mail addresses for three references

Please apply at: [https://jobs.ndsu.edu/postings/9814](https://jobs.ndsu.edu/postings/9814)

For further inquiries about this position, please e-mail Dr. Xinhua Jia, Search Committee Chair at Xinhua.jia@ndsu.edu. Include a phrase such as “Inquiry into NDSU Precision Ag position” in the subject line.

EO/AA Statement:

North Dakota State University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, disability or veteran status. Women & traditionally underrepresented groups are encouraged to apply.