



North Dakota State University

Postdoctoral Fellow - Fundamental Rheology



Department of Plant Sciences

- ◆ Screening: 8/1/2011
- ◆ Apply on-line at:
<https://jobs.ndsu.edu/>
- ◆ Opening #: 1100142
- ◆ Submit:
 1. A letter of application discussing how the stated qualifications are met
 2. A detailed resume.
 3. Official academic transcripts
 4. Three professional references

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POSITION DESCRIPTION: Seeking a postdoctoral research fellow with experience in the field of Fundamental Rheology. Responsibilities include orchestrating and conducting experiments using a rheometer with emphasis on analysis of polysaccharides, gums and dough. Candidate will be performing experiments on rheological analysis of non-starch polysaccharides and starch from cereals in relation to their functionality in food systems; analysis of viscoelastic properties of dough. The candidate will provide demonstrations of our equipment and give technical support and rheology training. The candidate will also be responsible for analysis of samples, preparation of written reports and presentation and analysis of data. The candidate should have a clear understanding of the field of rheology, demonstrate good communication skills as well as analytical, mechanical and problem solving skills. They should be highly organized with previous data management experience, and possess strong interpersonal skills to successfully deal with students and staff.

MINIMUM QUALIFICATIONS

- 1) Ph.D. in Food Engineering, Food Science or related discipline
- 2) Extensive experience on Rheology (fundamental)
- 3) Experience on rheological analysis of polysaccharides/gums/carbohydrates, and dough
- 4) Experience with statistical analysis (e.g., SAS or similar software) of data
- 5) Documented ability to communicate effectively in English (writing and oral)
- 6) Experience managing large data sets of information
- 7) Ability to work in a team oriented environment

PREFERED QUALIFICATIONS

- 1) Experience using a StressTech Rheometer
- 2) Background in Cereals
- 3) Experience in dough rheology
- 4) Strong publication record
- 5) Experience working in diverse groups effectively
- 6) Experience working with or teaching students and/or other groups

THE UNIVERSITY: North Dakota State University is the state's Morrill Act land-grant institution. Located in Fargo, North Dakota's largest city, the university strives to be a leader in information systems, technology transfer, economic development, and lifelong learning and encompasses a broad spectrum of curricular offerings, scholarly activity and service. It is one of two major research universities in an 11-institution state university system. NDSU has enjoyed steady enrollment growth for the past decade. Current enrollment is about 12,100 students. NDSU researchers are leading major initiatives in nanotechnology, microelectronics, polymers, food safety, materials science, and more. For more information see: www.ndsu.edu.

THE COMMUNITY: Recently named one of the most desirable places in the country to live by Money magazine, Fargo is quickly earning a reputation as a perfect place to make a home. Nestled in the rich farmlands of the Red River Valley, the Fargo-Moorhead community has many qualities that contribute to this reputation, including the highly-respected educational system, advanced medical technology, a progressive business community, numerous cultural and arts opportunities, clean air and water, and friendly people.