

BIOCHEMISTRY (PHD)

The Center for Biological Chemistry trains future scientists for tomorrow's challenges in plant, animal, and microbial metabolism, redox biology, plant biochemistry, synthetic biology, and more.

Description

Discover a world of limitless possibilities with the Center for Biological Chemistry's (CBC) renowned graduate program. Our commitment to interdisciplinary research opens doors to a wide array of research areas, including:

- Plant and Animal Metabolism
- Systems Biology and Metabolic Networks
- Structural Biology and Enzyme Mechanisms
- Redox Biology
- Molecular Mechanisms of Disease
- Plant Science Innovation

Our collaborative environment combines the expertise of our biochemistry faculty with specialists from animal science, agronomy, chemistry, and biological sciences. This unique synergy fuels groundbreaking research.

What Awaits You at CBC?

Cutting-Edge Facilities: Immerse yourself in advanced laboratories and state-of-the-art equipment, all housed in the George W. Beadle Center for Genetics and Biomaterials Research.

Interdisciplinary Learning: Experience the power of interdisciplinary collaboration, where varied perspectives converge to solve complex biological challenges.

Core Facilities: Access essential resources, including mass spectrometry, spectroscopy, X-ray crystallography, plant transformation, microscopy, and exceptional plant growth and greenhouse facilities.

Innovative Technology: Harness the latest tools, from fluorescence-activated cell analysis to next-generation high-throughput DNA sequencing.

At CBC, we're empowering future leaders in biological chemistry. Join us in reshaping the boundaries of scientific discovery.

Specializations

- Molecular Mechanisms of Disease

Program-Related Information

Graduate Chair

Nicole Buan
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Support Staff

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Program Website

<https://biochem.unl.edu/academic-programs/graduate-programs/>

Applying for Admission

Standard requirements for all graduate programs

- Application for Admission with \$50 non-refundable application fee (<https://graduate.unl.edu/admissions/requirements/#appfee>).
- Transcripts (<https://graduate.unl.edu/admissions/requirements/#transcripts>) (unofficial): Uploaded as part of application form.
If International: Uploads must include all college- or university-level transcripts or mark sheets (records of courses and marks earned), with certificates, diplomas, and degrees plus certified English translations.

After admission: Official documents are required from all students who are admitted and enroll. Photocopies of certified records are not acceptable. International students enrolled in other U.S. institutions may have certified copies of all foreign records sent directly to the Office of Graduate Studies by their current school's registrar office.

- If applicant's native language is not English, verification of English proficiency (<https://graduate.unl.edu/admissions/english-proficiency/>) is required.

When sending TOEFL scores, our institution code is 6877 and a department code is not needed.

- If applicant is not a US citizen and expects an F or J visa: financial information (<https://graduate.unl.edu/prospective/international/financial/>).

Eligibility for the Molecular Mechanisms of Disease specialization is limited to US citizens, non-citizen nationals, or permanent residents in accordance with NIH guidelines.

- Applicants must also fulfill any additional requirements the department specifies at the time of application.

Additional requirements specific to this program

- Three recommendation letters
- Curriculum Vitae or Resume
- Personal Statement: Your statement should include your research interests, your long-term goals, how graduate study in Biochemistry at Nebraska will help you achieve your goals, and any additional information you think will help in evaluating your application. If applying to the Molecular Mechanisms of Disease specialization, indicate your interest in this training program and specify which biomedical focus area of MMOD is of greatest interest to you.
- Publications: List your publications (if applicable) in the application's Additional Information page and/or in your Resume.

Admission Application Deadlines

December 1

Requirements

Hours required: 90