

Participate in world-class research

Faculty members in the College of Science and Mathematics invite you to join them in their labs and in the field. Our cutting-edge researchers are ready to show you the ropes of scientific research and give you a front-row seat for the latest discoveries in their fields.

Participating in research gives you the opportunity to immerse yourself in science and apply what you learn in the classroom. You will hone your problem-solving and critical-thinking skills that will serve you well in whatever career you choose.

Your hands-on experience at a top 100 research university will make you more competitive for scholarships and fellowships and give you excellent preparation for graduate-level education.

Why do research?

- Earn academic credits or get paid.
- Develop skills for your career.
- · Apply what you learn in the classroom.
- Be more competitive for scholarships and fellowships.
- Work with top-notch researchers.
- Prepare for graduate-level education.

Get started

- 1. Review the following list to find a research project that interests you.
- Contact the faculty member about working with him or her. You can find contact information in the campus directory at ndsu.edu/directory.

"Research has been one of my favorite things I've done at NDSU. I've been in data collection and analysis sides. I feel like the opportunities made me a well-rounded researcher and have prepared me for what I want to do in the future."

Ana Evenson

junior in psychology

Biological Sciences

Professor	Students	Major or coursework	Research area	Credit or pay
Laura Aldrich-Wolfe	2	Any	Plant-fungal interactions	Credit to start
Kimberly Booth	1-2	No major coursework requirement	Teaching and learning of non-majors biology courses	Credit
Julia Bowsher	1-2	Biol 151	Evolution and development of insects	Credit to start, pay the next semester
Ned Dochtermann	3-4	Majoring in biology, zoology or psychology	Behavioral and evolutionary ecology	Credit
Erin Gillam	Up to 3	Any	Behavior and conservation of bats	Credit/pay/both
Kendra Greenlee	1-2	Majoring in biology	Insect physiology	Credit to start
Tim Greives	1-2	Majoring in biology or psychology	Seasonal regulation of physiology behavior	Credit
Britt Heidinger	1-2	Biology major	Avian physiological ecology	Credit
Page Klug	2-3	Majoring in biology, natural resources management or agriculture	Human-wildlife interactions and wildlife conservation in human-modified systems	Pay and/or course credit
Giancarlo Lopez-Martinez	2-3	Majoring in biology and completed Biol 150 and 151	Stress physiology focusing on oxidative stress	Credit to start
Jennifer Momsen	2	Any major, freshman and up	Learning in biology, alternative grading, systems thinking	Credit or pay
Lisa Montplaisir	1-2	Completed Biol 150 and 151	Teaching and learning of undergraduate biology	Credit to start
Katie Reindl	1	Biol 150	Cancer cell biology and pharmacology	Credit
Sarah Signor	2-3	Any major	Evolutionary genetics	Credit to start
Matthew Smith	2-6	Students can be freshmen to seniors	Reptile care, herpetology and physiological ecology	Credit to start
Craig Stockwell	1-3	Biology or natural resources management	Conservation ecology and genetics of fishes	Credit to start

Chemistry and Biochemistry

Professor	Students	Major or coursework	Research area	Credit or pay
Uwe Burghaus	2	Chemistry/physics all levels	Surface science, nanoscience and materials	Credit to start
Stuart Haring	2-3	Science major, freshman-junior	Molecular and cellular biology, mutation and disease prevention	Credit to start
Dmitri Kilin	Up to 3	Chemistry/physics/math/engineering	Dynamics of photo-reactions, photo-luminescence and charge transfer Materials for LED, PV and telecommunications	Both
Svetlana Kilina	1-2	Chemistry/physics	Computational chemistry of nanostructures	Either
Alexey Leontyev	1	General chemistry	Chemistry education research	Either
Seth Rasmussen	1-2	Chem 150	Organic semiconducting materials and/or history of science	Credit to start
Kenton Rodgers	1-2	Chemistry/biochemistry	Metallobiochemistry, biophysics, inorganic chemistry, laser spectroscopy	Credit to start
Mukund Sibi	1-2	Organic chemistry 1 and 2	Green chemistry, sustainable materials and medicinal chemistry	Either
Sangita Sinha	2	Freshman-junior, GPA 3+	Structure biology of proteins essential to human health	Credit to start
Pinjing Zhao	1-2	Organic chemistry 1 and 2	Organometallic chemistry and catalysis	Either

Coatings and Polymeric Materials

Professor	Students	Major or coursework	Research area	Credit or pay
Bakhtiyor Rasulev	1-2	Major in chemistry/biochemistry/statistics and computer science	Computational polymer chemistry, cheminformatics, machine learning in materials and materials informatics	Either
Andriy Voronov	1-2	Organic chemistry	Study of polymeric materials from natural resources	Either
Dean Webster	3-4	Major in chemistry/engineering/minor coatings and polymeric materials	Synthesis and characterization of polymers, coatings and elastomers	Either

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Professor	Students	Major or coursework	Research area	Credit or pay
Benjamin Laabs	1-2	Completed or enrolled in Geol 105 and 106	Management and analysis of geochemical and paleoclimate data	Pay and/or course credit
Ken Lepper	2-4	Completed Geol 105, research will start January 2023	Team-based research on glacial Lake Agassiz	Credit

Mathematics

Professor	Students	Major or coursework	Research area	Credit or pay
Maria Alfonseca-Cubero	1-2	Math major, Math 270, Mathematica experience	Using Mathematica to study convex bodies	Credit
Dogan Çömez	2-3	Math, science, physics major and Math 266, 270	Fractals and their dynamics/coding	Credit
Friedrich Littmann	1-2	Math 450 or 481	Fourier analysis and signal processing	Credit
Indranil SenGupta	1-2	Math/physics/electrical and computer engineering/ computer science; Mathematica experience	Mathematical finance	Credit
Jessica Striker	1-2	Math, physics or computer science major; Python coding experience or Math 430 or 436	Computational combinatorics	Credit
Abraham Ungar	2	Sophomore+	Hyperbolic geometry	Credit

Physics

Professor	Students	Major or coursework	Research area	Credit or pay
Yongki Choi	1-4	Physics/chemistry/biology/engineering	Biophysics, bioelectronics and nanotechnology development	Either
Andrew Croll	1-4	Physics/chemistry/mechanical engineering/biology	Polymer science and engineering	Either
Alan Denton	1-2	Physics/chemistry/engineering	Theoretical and computational modeling of soft materials	Credit to start
Andrei Kryjevski	1	Phys 486	Simulation of electronic properties of nanostructures	Either
Mila Kryjevskaia	1-2	Completed Phys 252	Physics education research	Both
Alexander Wagner	2	Physics/mathematics/engineering	Modeling fluids with lattice gases	Credit

Psychology

Professor	Students	Major or coursework	Research area	Credit or pay
Benjamin Balas	2-3	Psychology/sophomore+	Face recognition and visual development	Either
Erin Conwell	3-4	Psychology	Language development and processing in children and adults	Credit
Katherine Duggan	2-4	Any major	Personality, sleep and health	Either
Jeremy Hamm	3-6	Sophomore+ with a GPA of 3.0+	Motivation, cognition and health	Credit to start
Clayton Hilmert	4-6	Sophomore+/GPA 3.0+	Stress and health	Credit
Verlin Hinsz	2-3	Psychology or management major	Organizational/social/industrial psychology; workgroup motivation	Credit
Leah Irish	5-6	Psychology/health sciences	Sleep, lifestyle and health outcomes	Credit
Mark Nawrot	2-3	Any with neuroscience interest	Visual depth perception, spatial vision and eye movements	Either
Michael Robinson	6-7	Psychology/sophomore+	Personality/emotion	Credit
Laura Thomas	2-4	Psychology	Action and cognition	Credit to start
Kathryn Wissman	1-2	Psychology	Student learning and cognition	Credit



"I started doing research one month after I started as an NDSU student. The techniques I've learned have developed my strong foundation in research. It's very beneficial to do research as an undergraduate at NDSU. You're able to do the same research projects many doctoral students are doing."

Sahill Lohana

sophomore in biotechnology

Clubs and Organizations

BIOLOGICAL SCIENCES

American Medical Student Association Pre-Dental Club Pre-Medical Club Pre-Optometry Club Pre-Physician Assistant Club Advisor: Jill Lodde Greives

Wildlife Society Advisers: Frin Gillam and Matthew Smith

CHEMISTRY AND BIOCHEMISTRY

Chemistry and Biochemistry Club Advisers: Seth Rasmussen and Stuart Haring

COLLEGE OF SCIENCE AND MATHEMATICS

CSM Ambassadors

Presidents: Brooke Bergen and Hannah Khan Vice Presidents: Erich Froiland and Harry Peterson Adviser: Nadeie Alexandre

EARTH, ENVIRONMENTAL, AND GEOSPATIAL

President of Geology Club: Emily Jackson

Adviser: Lydia Tackett

MATHEMATICS

Pi Mu Epsilon (Math Club) President: Hannah Allev

PHYSICS

Society of Physics Students President: William Tupa Adviser: Alan Denton

PSYCHOLOGY

Psychology Club President: Sierra Preabt Psychology Club Advisor: Katie Wissman

