



DISCOVERY

UNLIMITED



UNDERGRADUATE RESEARCH



THE UNIVERSITY OF TEXAS AT ARLINGTON

WELCOME TO A WORLD OF DISCOVERY

UT Arlington offers highly motivated undergraduate students the unique opportunity to participate in research much earlier in their college career than at other universities. By working alongside faculty and graduate researchers, these talented Mavericks have the chance to experience the "aha" moments as they happen—and to discover that college can be much more enlightening than they ever imagined.



→ **EXPLORE THE UNKNOWN.** That's what Melissa Johnson strives to do in her research everyday. "Most undergrads learn in the classroom alone," she says. "I am lucky enough to work in a lab where I have all the room in the world to be creative, make my own mistakes and learn from them." Johnson is working with faculty researchers on a method to instantly detect the H1N1 (swine flu) virus.

Melissa Johnson ('12)
College of Engineering



→ **THINK LIKE A PH.D.** That's the advice given to Carlos Serrano when he stepped into a biochemistry lab at UT Arlington. "I originally had the notion that becoming involved in research would be difficult and relatively unattainable," he says. "Now I realize it's about using the theory learned in a classroom to solve problems in the lab." Serrano works alongside faculty and graduate researchers alike to use biocompatible luminescent polymers to image and diagnose cancer in tissues.

Carlos Serrano ('10)
College of Science





→ **CREATE YOUR OWN MASTERPIECE.**

That's La Cresha Lowe's goal as she studies the effects of childhood abuse on adulthood behavior. "It's amazing how much research has been done on the cycle of violence," she says. "Now it's my turn to make my mark. I take the research one step at a time and slowly put all the pieces together until I have my own answers."

La Cresha M. Lowe ('09)
College of Liberal Arts



→ **EXPECT THE UNEXPECTED.** That's the mantra Ahmed Shahid lives by when it comes to his research. "Being a bioengineering student, I never thought I would be working to uncover alternative energy solutions," he says. His research looks at how plants effortlessly convert light into energy. "I am trying to figure out the how and the why in order to find natural and innovative ways to power the world."

Ahmed Shahid ('10)
College of Engineering



MAKE YOUR MARK, AHEAD OF TIME



MAVERICK METTLE, MAVERICK RESEARCH

At UT Arlington, we believe undergraduate students should have opportunities to conduct research of their own and to participate with and learn from faculty researchers. Research gives students the opportunity to explore the subjects they're passionate about and to share what they have uncovered. In the process, they gain firsthand knowledge of the subject, develop important analytical skills and learn to collaborate with other students and faculty.

UT Arlington Mavericks are at the forefront of their research fields. They rigorously pursue solutions to today's most complex problems, including the diagnosis and treatment of cancer, the cultivation of renewable energy sources and the management of chronic pain. The University is classified as a Carnegie Research University/High Activity, and research expenditures have doubled in the past five years.

MAKING A DIFFERENCE

Undergraduate research can be one of the most rewarding and meaningful experiences at UT Arlington because students can:

- Work closely with a faculty mentor
- Learn by doing
- Increase confidence in their scholarly abilities
- Develop teamwork and collaboration skills
- Build a portfolio of research experience
- Gain respect in their chosen fields of study
- Create a network for academic endeavors



COMMUNICATING THE IMPACT

UT Arlington students have had articles published in peer-reviewed journals, traveled to conferences and meetings across the country to present their research and won prestigious national research awards, fellowships and scholarships.

They also present at UT Arlington's Annual Celebration of Excellence by Students (ACES), which showcases the best of students' research and creativity. Undergraduate students work with faculty mentors in their disciplines to write and submit abstracts for the

competition. The approved abstracts are then turned into oral presentations or posters to be presented at the symposium.

Past winners have presented research on gene therapy, business relations, army recruiting, pain control, better tools for builders, history, philosophy, biochemistry and engineering. They have presented works of art, literature, music and stage performances. ACES is truly an interdisciplinary event in which any student from any program can participate.

ANY PERSON, ANY INQUIRY

No matter what major or interest, Maverick students can find a research project to fit their academic needs. Students work with academic advisors, student organizations or professors to find research opportunities on campus. Faculty members in UT Arlington's colleges and schools are performing innovative research and involving undergraduates in it every day. Students work with world-class faculty in fields ranging from science to psychology and from nursing to architecture. In other words, nearly every field is open to you as an undergraduate researcher.

Students can also participate in a number of ready-made programs that support research on campus.





MCNAIR SCHOLARS PROGRAM

The McNair Scholars Program is designed to prepare disadvantaged or under-represented undergraduate students for graduate study culminating in the Ph.D. The program assists a minimum of 30 Scholars each year to become more competitive in the graduate school application process through the Summer Research Internship (between the junior and senior years), GRE preparation, and conference presentations. Students

receive a stipend and three-credit hour scholarship while conducting their research.

Applicants are selected to the program based on their application, transcript(s), essay, two letters of recommendation from faculty (and tax documentation). Applications are accepted each October/November.

FOR MORE, GO TO
uta.edu/soar/trio.htm



HONORS COLLEGE RESEARCH ASSISTANTSHIPS

The Honors College offers students research opportunities during the summer through Undergraduate Research Assistantships. Students work with a full-time faculty researcher to gain valuable experience in their field of study and to contribute to projects that are a vital part of the academic experience and that provide a realistic foundation for advanced

study. Applicants for the program must be enrolled and in good standing in the Honors College and submit an application, their personal statement and research proposal prepared in collaboration with a faculty mentor. Applications are accepted in March.

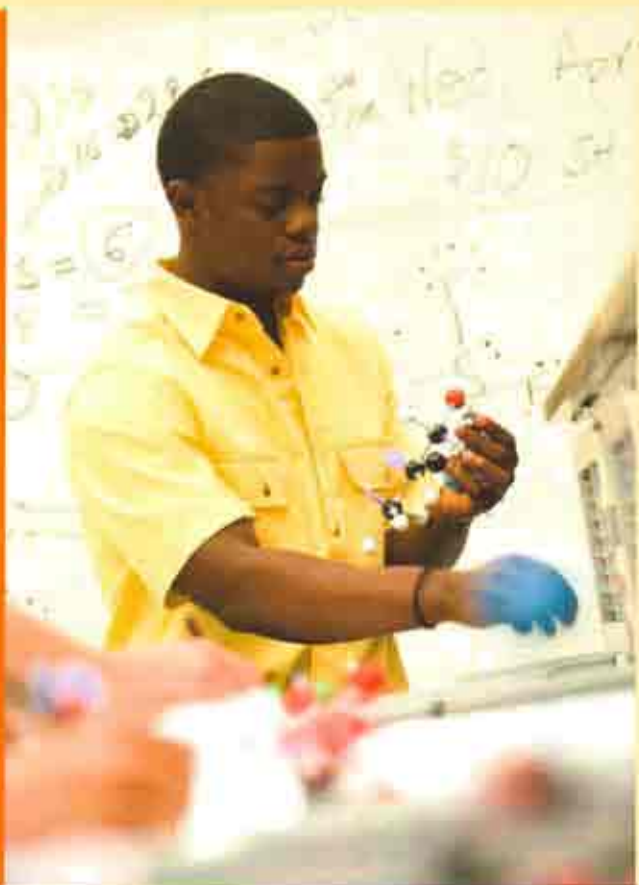
FOR MORE, GO TO
honors.uta.edu/scholarships/assistantships.shtml

THEORETICAL ECOLOGY RESEARCH

UT Arlington's Math and Biology departments work in collaboration on this unique program that prepares students to work in the field of mathematical biology. The two-year program, called UTTER (Undergraduate Training to Theoretical Ecology Research), provides scholarships for qualified students to pursue a program of mentoring, seminars and specially designed interdisciplinary coursework that equips students with the knowledge and skills necessary to conduct research. The program culminates in a research project that looks at ecological issues and their potential consequences.

Students interested in UTTER must have two years remaining to complete their Bachelor of Science in Biology or Math, must be enrolled full-time and must have completed two course prerequisites. Applications are accepted in March.

FOR MORE, GO TO
ma.edu/math/utter





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START THE APPLICATION PROCESS AND YOU'LL SEE OUR SUPPORT BEGINS EVEN BEFORE YOU'RE A STUDENT.

FRESHMEN

For automatic admission as a freshman, you must meet the class rank and minimum SAT or ACT score. Students with no class rank will be reviewed individually. Please refer to uta.edu/admissions for criteria.

HOW TO APPLY TO UT ARLINGTON

- * Complete the Apply Texas application. It can be accessed online by visiting the following Web sites: uta.edu/admissions or applytexas.org.
- * Submit official transcripts (high school, college).*
- * Submit official SAT or ACT scores.
- * Submit the application fee; \$35 up to the priority deadline; \$50 after the priority deadline.

TEXAS SUCCESS INITIATIVE

The Texas Success Initiative has been developed by the state legislature to ensure student success at institutions of higher education.

To see if you have to take the Texas Higher Education Assessment (THEA) test or if you are exempt, go to uta.edu/admissions/successinitiative.

* Note: Please submit college transcripts if you have dual credit or have been concurrently enrolled at a college.

MAKE YOUR WAY HERE.

Visiting UT Arlington is the only way to truly experience what we offer. Tour our incredible facilities. Feel the campus connections.

Talk with advisors and students. Picture yourself here. And no matter where you're coming from, imagine how far you can go.

Visit the Web site to view available dates:
uta.edu/admissions/visit.

APPLICATION PRIORITY DEADLINE

Fall Semester:	June 1
Spring Semester:	December 1

IMPORTANT LINKS

Office of Research
uta.edu/research

Honors College
uta.edu/honors

McNair Scholars Program
uta.edu/soar/trio.htm

UTTER
uta.edu/math/utter

Academic Advising
uta.edu/studentssuccess/advising

Student Organizations
uta.edu/studentorgs