## Applied Research Laboratories Apprenticeship Program Application Checklist

Graduating high school seniors must meet the following criteria to be considered for the program.

- 1. Have plans to attend a senior college beginning with the Fall 2024 semester.
- 2. Have both applied to and been accepted at UT Austin.
- 3. Have a major within College of Engineering, Geosciences, or Natural Sciences. (Preference given to students attending UT Austin and whose intended majors are aerospace, electrical, or mechanical engineering; Computer Science; geophysics; mathematics; or physics)
- 4. Be a US citizen.

If you meet the criteria listed above and are interested in applying, please submit the following:

- 1. The Apprenticeship Application (this form).
- 2. A resume
- 3. An original high school transcript
- 4. Optional—Copies of your SAT and/or ACT scores (if not included on your transcript).

Information about the Apprenticeship Program (IR&D) is located at: https://www.arlut.utexas.edu/se.shtml

Application must be received at Applied Research Labs by March 10, 2024. (Applications received after this date will not be considered.) The program dates are 6/6/24–8/15/24.

Time off (unpaid) other than listed program dates is only allowed to attend freshman college orientation. You will be expected to work a 40-hour work week, from 8:00am-5:00pm Mon-Fri., throughout each day of the program.

### Please send your full Apprenticeship Program application and resume as an email attachment to:

Kimberly Sanders at kimberly.sanders@arlut.utexas.edu

Please **DO NOT** take a photo of your application with your cell phone; if you need to scan your completed application use a mobile app like Scanner Pro.

Please see your high school registrar and have them submit your original transcript. Be sure to allow time for your transcript to be mailed so that it is received in our office by the deadline.

### If you choose, you may mail application materials to

Apprenticeship Program HR
Office
Applied Research Laboratories
P.O. Box 9767
Austin, TX 78713-9767

## **APPLICATION QUESTIONNAIRE**

Applied Research Laboratories
Science and Engineering Apprenticeship
Program Summer 2024
Applied Research Laboratories
The University of Texas at Austin

Application must be received at ARL by March 10, 2024. Allow time for your transcript to be mailed.

Name:	Date Form Completed:
High School:	Graduation Date:
	to this program by your teacher or counselor, please list their information here.
Teacher (full name	<del>)</del> :
Counselor (full nam	ne):
Home Address:	
(Str	reet Address)
Daytime Phone:	ty) (State) (Zip Code)  Evening Phone:
E-Mail Address:	
U.S. Citizen? Yes	No UT EID:

Answer boxes represent the maximum answer length, but may be shorter. Some of this information should be on your resume.

. Have you form	ally accepted admis	sion to a specific ur	niversity at this time	? If so, which one?
What is your in	itended college majo	or, and why have yo	ou chosen this major	r?
			•	

List the high school math and science courses you have taken, including those in which you are currently enrolled.

Please explain.						

rould you like to gain from a summer internship in science and/or engineering?				

What are your lo	ong-term goals f	for your care	er?		

10.	Artificial intelligence (AI) and machine learning (ML) are changing the way researchers approach technology development. For this question, describe a task that could be completely reimagined with artificial intelligence and machine learning. Outline how you might approach the problem with artificial intelligence. Some considerations might be how the task would be redesigned, what AI/ML algorithms might be applied, what data might be necessary, how you would collect the data, or what pitfalls you might encounter. Your response should be less than 500 words.						

10. Additional space bel	low.		

This form is interactive — complete electronically and print.



The University of Texas at Austin does not discriminate on any basis prohibited by applicable law including race, color, religion, sex, national origin, disability, age, citizenship status, veteran or disability status in recruitment, employment, promotion, compensation, benefits or training. It is also the university's policy to maintain a work environment free from discrimination on the basis of sexual orientation. The information on the Application, together with any attachments, is the property of the university.

Answer <b>all</b> questions complete	ely. Please return	n completed application	to the department to which you	are applying.				
Last name		First name		Middle initial	UT EID	Mark if currently employed at UT A  Mark if eligible to work in the US		
Street address				City		Sta	ate Zip code	
Daytime phone	Evening p	hone	E-mail address		Date avai	lable to start work	Hours per week available	
If you are related by kinship or	r marriage to any	current employee or to	any member of the Board of Re	gents of The University of Texas	System, provide	e their name, relatio	nship and department.	
If your age is below 18 years, g	ive date of birth		If you are a UT Austin stu	dent, how many hours are you o	currently enrolle	ed?		
Current driver's license type	e 🔾 Comme	ercial Operator	○ None					
Education General educat	ion  High	School graduate	GED Other Highe	st grade completed				
-accument Concrat Coucae			OLD Other riight	st grade completed				
School name and location _								
Beginning attendance date	(MM/YYYY) _	End	d attendance date (MM/YYYY)	Major	r(s)			
Currently enrolled	Graduated	Undergraduate hours_	Graduate hours	Completed degi	ree level			
Beginning attendance date			d attendance date (MM/YYYY)					
Currently enrolled	Graduated	Undergraduate hours_	Graduate hours	Completed degi	ree level			
School name and location								
Beginning attendance date	(MM/YYYY)	End	d attendance date (MM/YYYY)	Major	r(s)			
			Graduate hours	Completed degr				



# Human Resources

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Start with your <b>first</b> job and work forward to the <b>most</b> in Employer		Dopartment	•		stin work experience here.
Street address		- '			Zip code
Title					·
Mark if currently employed with this employer Job duties	Average number of hours you worked ea				
Reason for leaving					
			End date	•	
Employer		Department			
Street address					Zip code
Title				Supervisor's phone	
Job duties  Reason for leaving					
Starting salary End salary		_	End date		
I certify that all the information provided by me in comomission of information shall be grounds for refusal to happlication. I understand that any offer of employment I hereby authorize The University of Texas at Austin or a misdemeanor or felony offense at age 17 or older. I do	nire or, if hired, termination. I understand a is contingent upon my agreement to abide b any law enforcement agency to furnish to Th	ny current or forme by the rules and regu e University of Texa	r employment at The University on allations of The Board of Regents of at Austin my criminal conviction	f Texas at Austin must of The University of T or record for a deferre	st be disclosed on my exas System. d adjudication,
members of such law enforcement agency or department					cy or department and att
I authorize The University of Texas at Austin to commun harmless with respect to any information they may s		mer employers, and	any others with whom you desir	e to check. I agree t	o hold such persons
Signature of employee			Date		

## Human Resources

The University of Texas at Austin is required to reach out to, hire, and provide equal opportunity to veterans and individuals with disabilities. To help us measure how well we are doing, we are asking you to provide the following confidential information online at this web address: <a href="https://utdirect.utexas.edu/jobs/confidential.WBX">https://utdirect.utexas.edu/jobs/confidential.WBX</a>

- · Birthdate, Ethnicity and Race, Gender
- Voluntary Self Identification of Disability
- · Federal Veteran Information Invitation to Self-Identify

This information is for reporting purposes only and is not part of the job application. You are not obligated to identify whether you are a person with a disability or whether you are a protected veteran, but we do hope you will choose to provide this information. Your answers will not be used against you in any way.

Rev: 1/4/22

## APPLIED RESEARCH LABORATORIES ADDENDUM - SKILLS INVENTORY STUDENT POSITIONS

Please mark skills that have been acquired through coursework, training, or experience that you would be immediately able to use. While none of these skills are required for employment at ARL, please mark the skills you possess.

LANGUAGES:  ADA  Bash  C  C++  Fortran  Java  Objective-C  Pascal  Perl  Python  Ruby  Tcl/Tk	SOFTWARE PACKAGES:  LabView Lab Windows MathCAD Matlab Mathematica OrCAD PADS Pro/Engineer SolidWorks  OPERATING SYSTEMS:	ENGINEERING:  Drafting Dynamics Electronics packaging Finite element modeling Fluid mechanics Heat transfer Machine Shop Materials science Mechanics Operations  Other:  OFFICE AUTOMATION: Access Drawing Prog: Filemaker Pro Framemaker MS Access MS Excel MS Outlook MS Powerpoint MS Publisher MS Visio MS Word Open Office  Other:  WRITING/EDITING: Publication Record (attach) Tech/Engr or Scientific Presentations Software Documentation System Documentation Other:		
☐ Verilog ☐ VHDL ☐ Other:	Familiar with: Developer on:  MAC UNIX LINUX  Familiar with: Developer on:			
LIBRARIES:  X11/Motif  Java/Swing  MFC  MPI  PVM  IDL  OpenGL  Java3D  SQL  ODBC  JDBC  CORBA  Java RMI	Windows Other:  WEB:  CSS HTML XML Javascript iQuery JSP PHP Other:  ELECTRONICS:			
RPC Obj Orien DBs:  iOS Android Other:	Analog Cable Construction Computer Assembly CPLD/FPGA Digital Microcontrollers Op Amp Circuits PCB Layout Power Supply Design Radio Test Equipment Manual Soldering			
and any actions based on it.  By typing in the signature below, this	s correct. I understand that any false statements is represents the applicants official signature on the	his form.		
SIGNATURE OF APPLICANT :		DATE:		