First Name:		Family	Family Name:			
Gender:	Race:	Date	Date of Birth: / / (MM/DD/YYYY)			
Nationality (if	you have dual citizer	nships, please list the	m all):			
Email:		Phone	e No.:			
Passport Num	ber:	Passport Expiratio	n Date: /	_ /	(MM/DD/YYYY)	
Mailing Addre	ess:		/	/	/	
	Street/P.O. Box	City	State	Zip Code	e Country	
Current High School:		Gra	Grade Level Starting Fall 2025:			
Have you tak	ken or are you plann	ing to take Physics	courses in High S	chool? Plea	se list them all.	
	: ACADEMIC TRACK		applicable):			
	our academic track p		nterested, 4 = lea	st interested)	
Biology	Chemistry	Fnaineerina	Riomedical Fn	aineerina		
SECTION 3		<u> </u>	Biornio di Car Eri			
•	pelow, tell us about you	•			ngineering, and ho	
the Westlake l	pelow, tell us about you Iniversity Pre-College I u interested in the We	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake l	University Pre-College	Program can help yo	u reach your god	ls.	ngineering, and ho	
the Westlake U	University Pre-College of the Univer	Program can help yo	ou reach your goa	ls.	ngineering, and ho	
the Westlake U	University Pre-College	Program can help yo	ou reach your goa	ls.	ngineering, and ho	
the Westlake U	University Pre-College of the Univer	Program can help yo	ou reach your goa	ls.	ngineering, and ho	
the Westlake U	University Pre-College of the Univer	Program can help yo	ou reach your goa	ls.	ngineering, and ho	
the Westlake U	University Pre-College of the Univer	Program can help yo	ou reach your goa	ls.	ngineering, and ho	

 List relevant academic awards, achievements, and scientific projects, etc.) you have participated in. 	l extracurricular activities (e.g., Science Fair, math club,
4. On a scale from 1 to 10, how likely are you to do yo	our undergraduate studies in China?
SECTION 4: CONFIRMATION	
Please confirm that you are applying to attend this pr the application.	ogram and that your parents/legal guardians know of
Applicant's Print Name:	Signature:
Parent/Legal Guardian's Print Name:	Signature:

Please submit the application form to intladmissions@westlake.edu.cn by January 10, 2025.

Academic Track Information

• Chemistry Track

Students opting for the Chemistry Track will explore experimental and theoretical chemistry in the Laboratory of Nanosynthesis in the Westlake School of Science, directed by Westlake Professor Hongyu Chen. The lab studies matter at the nanometer scale, where physical and chemical properties often differ from our everyday experiences. In this track, students will use metal nanoparticles as a target to gain knowledge and skills in chemical synthesis and characterization. Students will explore the chemical changes of metal compounds and learn about the practical applications of nanoparticles. Through these investigations, students will gain a deeper perspective on how chemistry governs our world and improves our lives.

Biology Track

Students opting for the Biology Track will learn experimental techniques in the School of Life Sciences academic biology laboratory facilities, instructed by Dr. Yanbo Mao and directed by Westlake Professor Jian Yang. The theme of this track is genes and genetics, with an emphasis on state-of-the-art CRISPR/Cas9 technology and well-established genetic engineering techniques. The program will cover the genetic mechanism by which eye color is inherited in fruit flies and the use of the CRISPR/Cas9 genome editing tool to mutate the specific gene and trace the resulting expression changes using fluorescent protein. Through these activities, participants will learn the theory underpinning gene manipulation and acquire hands-on laboratory skills in molecular biology. Students are expected to have the basic knowledge of DNA replication and transcription, gene expression, and cell growth.

• Engineering Track

Students opting for the Engineering Track will learn about bionic robot design, fabrication, and control at the Westlake School of Engineering. Research in the lab involves studying aerodynamics and hydrodynamics of bio-locomotion, developing novel programmable metamaterial for aero/hydro morphing structures, and advancing machine learning and bio-inspired algorithms for vortical flow control and sensing. Laboratory activities will include designing, constructing, and characterizing autonomous vehicles whose propulsion mechanism mimics creatures in the natural world. These "robotic fish" swim through the water like real fish and are equipped with sensors and transducers together with data about the underwater environment. Through the design and 3D printing of robot fish with locomotion programming, you will learn and apply advanced engineering technologies applicable to many fields.

Biomedical Engineering Track

Students who opt for the Biomedical Engineering track will learn about fundamentals and experimental skills in the cross-disciplinary field of biomaterials and tissue engineering at the Biomaterials and Regenerative Engineering Alliance Laboratory (B-REAL). Specifically, students will be able to learn how to prepare biodegradable polymers (biomaterials), culture human cells, and fabricate biomaterials into scaffolds (or tissue templates) using various techniques, including 3D printing. Students will be given opportunities to solve challenges related to material discoveries and applications in engineering human tissues such as skin, bone, nerves, and beyond.