

Biospecs Summer Program Schedule (July Cohort)

Time	Day 1: Neuroscience & Neurology	Day 2: Diagnostic Imaging	Day 3: Immune System & Stress	Day 4: Radiation Therapy
10:00	Program Overview Program intro and team activities	Day 2 Overview Introduction & Outline of the day	Day 3 Overview Introduction & Outline of the day	Day 4 Overview Introductions & Outline of the day
10:15	LECTURE SERIES: Introduction to Neurodegenerative Diseases 1. Alzheimer’s Disease 2. Parkinson’s Disease 3. Frontotemporal Dementia	CAREER HIGHLIGHT: X-Ray Technologist - Learn about the roles of X-ray technologist in healthcare - Day in the life of X-ray technologist - Education pathways to obtain Diagnostic Imaging Technologist Certification	LECTURE SERIES: Introduction to the Immune System How do our body’s structures and cells protect the body from harmful microbes? - Innate Immunity - Adaptive Immunity	CAREER HIGHLIGHT: Radiation Therapy Learn about the roles of radiation therapy in healthcare
10:30				
10:45		LECTURE SERIES: How do X-Rays work? - Physics behind x-rays - Factors controlling X-ray strengths - Types of imaging technology - Radiation protection	LECTURE SERIES: Stress Physiology What mechanisms are involved when our body undergoes stress? - Acute and Chronic Stress - HPA Axis - Immune System Interaction	CASE DISCUSSION: Workflow of Radiation Therapy Learn about radiation therapy protocols through case discussion
11:00				Lunch & Library information session
11:15				
11:30				
11:45	Lunch			ASK THE UNDERGRADUATE STUDENTS: Network and listen to undergraduate students and opportunity to ask about their experience.
12:30	CAREER HIGHLIGHT: Journey into Research Learn about pursuing a research degree!	LECTURE SERIES: Types of X-rays and Anatomy - Anatomy of the body in imaging? - X-ray modalities	CAREER HIGHLIGHT: Journey into Medicine Learn about pursuing medicine & student’s journey	
12:45	CASE STUDIES: Neurology Case Presentations Apply your understanding to solve through various neurological cases	CASE STUDIES: Diagnostic Imaging Cases Learn about the causes and treatments of various diseases and how these appear during imaging	WORKSHOP ACTIVITY: Suturing and Taking the Vitals Learn about different suturing techniques and how to take vitals from medical students!	JEOPARDY GAME SHOW How much did you learn in this program?
1:00				PROGRAM COMPLETION CEREMONY!!
1:15				
1:30				
1:45				

Important Note:

- Day 2 starts from 12pm and ends at 4pm (all the times indicated are shifted down by 2 hours)
- Some details in this program schedule may be subject to change