

PHYSICS WILLIAM AND MARY

PHYSICS AT WILLIAM & MARY: EXPLORING A LEGACY OF DISCOVERY AND INNOVATION

PHYSICS WILLIAM AND MARY REPRESENTS A VIBRANT ACADEMIC COMMUNITY DEDICATED TO UNRAVELING THE FUNDAMENTAL PRINCIPLES OF THE UNIVERSE. FROM GROUNDBREAKING RESEARCH IN ASTROPHYSICS AND CONDENSED MATTER TO A ROBUST UNDERGRADUATE CURRICULUM FOSTERING CRITICAL THINKING AND PROBLEM-SOLVING SKILLS, THE DEPARTMENT OF PHYSICS AT WILLIAM & MARY OFFERS A COMPELLING ENVIRONMENT FOR ASPIRING SCIENTISTS. THIS ARTICLE DELVES INTO THE DIVERSE OFFERINGS, FACULTY EXPERTISE, RESEARCH OPPORTUNITIES, AND THE OVERALL STUDENT EXPERIENCE WITHIN THIS ESTEEMED DEPARTMENT. WE WILL EXPLORE THE CORE PRINCIPLES THAT GUIDE THEIR TEACHING, THE CUTTING-EDGE RESEARCH CONDUCTED, AND THE PATHWAYS AVAILABLE FOR STUDENTS INTERESTED IN A CAREER IN PHYSICS OR RELATED FIELDS, ALL WITHIN THE CONTEXT OF WILLIAM & MARY'S RICH ACADEMIC TRADITION.

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ACADEMIC PROGRAMS AND CURRICULUM

THE DEPARTMENT OF PHYSICS AT WILLIAM & MARY IS COMMITTED TO PROVIDING A COMPREHENSIVE AND CHALLENGING EDUCATIONAL EXPERIENCE THAT EQUIPS STUDENTS WITH A DEEP UNDERSTANDING OF PHYSICAL PRINCIPLES AND THE ANALYTICAL SKILLS NECESSARY FOR FUTURE SUCCESS. THE CURRICULUM IS DESIGNED TO BUILD A STRONG FOUNDATION IN CLASSICAL AND MODERN PHYSICS, PROGRESSIVELY INTRODUCING MORE ADVANCED CONCEPTS AND SPECIALIZED AREAS.

UNDERGRADUATE PHYSICS STUDIES

FOR UNDERGRADUATE STUDENTS, THE PHYSICS PROGRAM AT WILLIAM & MARY OFFERS SEVERAL PATHWAYS, INCLUDING A BACHELOR OF ARTS (B.A.) AND A BACHELOR OF SCIENCE (B.S.) IN PHYSICS, AS WELL AS A B.S. IN APPLIED SCIENCE WITH A CONCENTRATION IN PHYSICS. THE B.A. PROGRAM PROVIDES A SOLID PHYSICS EDUCATION WITH FLEXIBILITY FOR STUDENTS INTERESTED IN PURSUING COMPLEMENTARY FIELDS LIKE PRE-MEDICINE, EDUCATION, OR COMPUTER SCIENCE. THE B.S. PROGRAMS OFFER A MORE INTENSIVE THEORETICAL AND EXPERIMENTAL PHYSICS EDUCATION, PREPARING STUDENTS FOR GRADUATE STUDIES OR CAREERS IN RESEARCH AND DEVELOPMENT. CORE COURSES TYPICALLY INCLUDE MECHANICS, ELECTRICITY AND MAGNETISM, THERMODYNAMICS, AND MODERN PHYSICS, ALL TAUGHT WITH AN EMPHASIS ON BOTH THEORETICAL UNDERSTANDING AND PRACTICAL APPLICATION. STUDENTS ARE ENCOURAGED TO ENGAGE WITH LABORATORY WORK EARLY IN THEIR ACADEMIC CAREERS, FOSTERING HANDS-ON EXPERIENCE WITH EXPERIMENTAL TECHNIQUES AND DATA ANALYSIS.

GRADUATE PHYSICS OPPORTUNITIES

WILLIAM & MARY ALSO BOASTS A HIGHLY REGARDED GRADUATE PROGRAM IN PHYSICS, OFFERING MASTER OF SCIENCE (M.S.) AND DOCTOR OF PHILOSOPHY (PH.D.) DEGREES. THE GRADUATE CURRICULUM DELVES DEEPLY INTO SPECIALIZED AREAS OF PHYSICS, ALLOWING STUDENTS TO WORK CLOSELY WITH FACULTY ON CUTTING-EDGE RESEARCH PROJECTS. THE PROGRAM EMPHASIZES DEVELOPING INDEPENDENT RESEARCH CAPABILITIES, CRITICAL THINKING, AND THE ABILITY TO COMMUNICATE COMPLEX SCIENTIFIC IDEAS EFFECTIVELY. GRADUATE STUDENTS BENEFIT FROM SMALL CLASS SIZES, DIRECT MENTORSHIP FROM FACULTY, AND ACCESS TO STATE-OF-THE-ART RESEARCH FACILITIES. THE PH.D. PROGRAM IS RESEARCH-INTENSIVE, CULMINATING IN A DISSERTATION THAT REPRESENTS A SIGNIFICANT ORIGINAL CONTRIBUTION TO THE FIELD.

FACULTY EXPERTISE AND RESEARCH AREAS

THE STRENGTH OF THE PHYSICS PROGRAM AT WILLIAM & MARY LIES IN ITS DISTINGUISHED FACULTY, WHOSE DIVERSE EXPERTISE SPANS A WIDE SPECTRUM OF PHYSICS SUBFIELDS. THESE DEDICATED RESEARCHERS ARE NOT ONLY AT THE FOREFRONT OF THEIR RESPECTIVE DISCIPLINES BUT ARE ALSO PASSIONATE EDUCATORS COMMITTED TO MENTORING THE NEXT GENERATION OF PHYSICISTS. THEIR ONGOING WORK FUELS THE DEPARTMENT'S VIBRANT RESEARCH ECOSYSTEM.

ASTROPHYSICS AND COSMOLOGY

RESEARCH IN ASTROPHYSICS AND COSMOLOGY AT WILLIAM & MARY IS A CORNERSTONE OF THE DEPARTMENT'S SCIENTIFIC ENDEAVORS. FACULTY MEMBERS ARE ACTIVELY INVOLVED IN STUDYING THE UNIVERSE'S ORIGINS, EVOLUTION, AND FUNDAMENTAL CONSTITUENTS. THIS INCLUDES INVESTIGATING PHENOMENA SUCH AS EXOPLANETS, BLACK HOLES, DARK MATTER, AND DARK ENERGY. THE DEPARTMENT OFTEN COLLABORATES WITH NATIONAL AND INTERNATIONAL OBSERVATORIES AND RESEARCH INSTITUTIONS, PROVIDING STUDENTS WITH OPPORTUNITIES TO CONTRIBUTE TO SOME OF THE MOST EXCITING QUESTIONS IN MODERN ASTRONOMY AND COSMOLOGY. RESEARCH METHODOLOGIES OFTEN INVOLVE OBSERVATIONAL ASTRONOMY, THEORETICAL MODELING, AND COMPUTATIONAL SIMULATIONS, AIMING TO INTERPRET DATA FROM TELESCOPES AND EXPLORE THE IMPLICATIONS FOR OUR UNDERSTANDING OF THE COSMOS.

CONDENSED MATTER PHYSICS

ANOTHER SIGNIFICANT AREA OF RESEARCH WITHIN THE DEPARTMENT IS CONDENSED MATTER PHYSICS. THIS FIELD FOCUSES ON THE MACROSCOPIC AND MICROSCOPIC PHYSICAL PROPERTIES OF MATTER, PARTICULARLY THE "CONDENSED" PHASES THAT APPEAR WHENEVER THE NUMBER OF CONSTITUENTS IS SO LARGE THAT IT VASTLY OVERSHADOWS QUANTUM EFFECTS OF THEIR DISCRETENESS. FACULTY EXPERTISE INCLUDES THE STUDY OF NOVEL MATERIALS, SUPERCONDUCTIVITY, MAGNETISM, AND THE PHYSICS OF LOW-DIMENSIONAL SYSTEMS. EXPERIMENTAL TECHNIQUES OFTEN INVOLVE ADVANCED SPECTROSCOPIC METHODS, LOW-TEMPERATURE MEASUREMENTS, AND THE FABRICATION OF NEW MATERIALS WITH UNIQUE ELECTRONIC AND MAGNETIC PROPERTIES. THEORETICAL WORK IN THIS AREA OFTEN EMPLOYS SOPHISTICATED QUANTUM MECHANICAL CALCULATIONS TO PREDICT AND EXPLAIN THE BEHAVIOR OF THESE MATERIALS.

NUCLEAR AND PARTICLE PHYSICS

THE DEPARTMENT ALSO MAINTAINS A STRONG PRESENCE IN NUCLEAR AND PARTICLE PHYSICS. RESEARCH IN THIS DOMAIN IS DEDICATED TO UNDERSTANDING THE FUNDAMENTAL BUILDING BLOCKS OF MATTER AND THE FORCES THAT GOVERN THEIR INTERACTIONS. FACULTY MEMBERS ARE INVOLVED IN BOTH EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF SUBATOMIC PARTICLES AND ATOMIC NUCLEI. THIS CAN INCLUDE PARTICIPATION IN LARGE-SCALE INTERNATIONAL COLLABORATIONS AT PARTICLE ACCELERATORS, THE STUDY OF NUCLEAR REACTIONS, AND THE EXPLORATION OF THEORETICAL FRAMEWORKS THAT DESCRIBE THE FUNDAMENTAL FORCES OF NATURE. THE PURSUIT OF THESE QUESTIONS PUSHES THE BOUNDARIES OF OUR KNOWLEDGE ABOUT THE UNIVERSE AT ITS MOST FUNDAMENTAL LEVEL.

BIOPHYSICS AND INTERDISCIPLINARY RESEARCH

RECOGNIZING THE INCREASING INTERCONNECTEDNESS OF SCIENTIFIC DISCIPLINES, WILLIAM & MARY'S PHYSICS DEPARTMENT ACTIVELY ENGAGES IN BIOPHYSICS AND OTHER INTERDISCIPLINARY RESEARCH INITIATIVES. THIS AREA EXPLORES THE APPLICATION OF PHYSICS PRINCIPLES AND METHODS TO BIOLOGICAL SYSTEMS. RESEARCHERS MAY INVESTIGATE THE PHYSICAL MECHANISMS UNDERLYING BIOLOGICAL PROCESSES, SUCH AS PROTEIN FOLDING, MOLECULAR MOTORS, OR CELLULAR DYNAMICS, USING TOOLS FROM THERMODYNAMICS, STATISTICAL MECHANICS, AND FLUID DYNAMICS. THIS INTERDISCIPLINARY APPROACH FOSTERS INNOVATION BY BRINGING TOGETHER PHYSICISTS, BIOLOGISTS, CHEMISTS, AND COMPUTER SCIENTISTS TO TACKLE COMPLEX CHALLENGES IN AREAS LIKE MOLECULAR BIOLOGY, NEUROSCIENCE, AND MEDICAL IMAGING.

RESEARCH OPPORTUNITIES FOR STUDENTS

A DEFINING CHARACTERISTIC OF THE PHYSICS PROGRAM AT WILLIAM & MARY IS ITS STRONG EMPHASIS ON PROVIDING STUDENTS WITH HANDS-ON RESEARCH EXPERIENCES. THESE OPPORTUNITIES ARE CRUCIAL FOR DEVELOPING A DEEP UNDERSTANDING OF THE SCIENTIFIC PROCESS, HONING EXPERIMENTAL AND ANALYTICAL SKILLS, AND PREPARING FOR ADVANCED ACADEMIC OR PROFESSIONAL CAREERS. BOTH UNDERGRADUATE AND GRADUATE STUDENTS ARE ACTIVELY ENCOURAGED TO PARTICIPATE IN FACULTY-LED RESEARCH PROJECTS.

UNDERGRADUATE RESEARCH PROGRAMS

UNDERGRADUATE STUDENTS AT WILLIAM & MARY HAVE NUMEROUS AVENUES TO ENGAGE IN RESEARCH. THE DEPARTMENT STRONGLY SUPPORTS UNDERGRADUATE INVOLVEMENT THROUGH FORMAL PROGRAMS AND INFORMAL COLLABORATIONS. MANY STUDENTS BEGIN THEIR RESEARCH JOURNEY BY WORKING CLOSELY WITH FACULTY MEMBERS ON ONGOING PROJECTS, OFTEN STARTING AS EARLY AS THEIR SOPHOMORE OR JUNIOR YEAR. THIS MIGHT INVOLVE ASSISTING WITH EXPERIMENTS, ANALYZING DATA, OR EVEN CONTRIBUTING TO THEORETICAL CALCULATIONS. THE SUMMER RESEARCH PROGRAM, FUNDED BY THE UNIVERSITY AND EXTERNAL GRANTS, PROVIDES STIPENDS FOR STUDENTS TO DEDICATE THEIR SUMMER MONTHS TO FULL-TIME RESEARCH ALONGSIDE FACULTY MENTORS. PRESENTING RESEARCH FINDINGS AT DEPARTMENTAL SYMPOSIA, NATIONAL CONFERENCES, AND EVEN CO-AUTHORING PUBLICATIONS ARE COMMON OUTCOMES OF THESE UNDERGRADUATE RESEARCH EXPERIENCES.

GRADUATE RESEARCH ASSISTANTSHIPS

FOR GRADUATE STUDENTS, RESEARCH ASSISTANTSHIPS ARE A FUNDAMENTAL COMPONENT OF THEIR DOCTORAL TRAINING. THESE ASSISTANTSHIPS PROVIDE FINANCIAL SUPPORT, OFTEN INCLUDING TUITION REMISSION AND A LIVING STIPEND, IN EXCHANGE FOR DEDICATED RESEARCH WORK. GRADUATE STUDENTS ARE TYPICALLY MATCHED WITH FACULTY ADVISORS WHOSE RESEARCH INTERESTS ALIGN WITH THEIR OWN, ALLOWING THEM TO IMMERSE THEMSELVES IN A SPECIFIC AREA OF PHYSICS. THESE ASSISTANTSHIPS OFFER INVALUABLE EXPERIENCE IN CONDUCTING INDEPENDENT RESEARCH, MANAGING PROJECTS, AND CONTRIBUTING TO THE SCIENTIFIC LITERATURE. THE GOAL IS FOR GRADUATE STUDENTS TO DEVELOP INTO LEADING RESEARCHERS CAPABLE OF DRIVING SCIENTIFIC INQUIRY FORWARD.

FACILITIES AND RESOURCES

THE DEPARTMENT OF PHYSICS AT WILLIAM & MARY IS EQUIPPED WITH MODERN FACILITIES AND RESOURCES THAT SUPPORT ITS COMPREHENSIVE ACADEMIC AND RESEARCH PROGRAMS. THESE FACILITIES ARE CRUCIAL FOR BOTH TEACHING AND ADVANCING THE FRONTIERS OF SCIENTIFIC KNOWLEDGE, PROVIDING STUDENTS AND FACULTY WITH THE TOOLS THEY NEED TO SUCCEED.

THE DEPARTMENT HOUSES DEDICATED LABORATORIES FOR UNDERGRADUATE TEACHING, EQUIPPED WITH INSTRUMENTATION FOR EXPERIMENTS IN MECHANICS, ELECTRICITY AND MAGNETISM, OPTICS, AND MODERN PHYSICS. THESE LABS ARE DESIGNED TO

COMPLEMENT CLASSROOM LEARNING, ALLOWING STUDENTS TO DIRECTLY OBSERVE AND MEASURE PHYSICAL PHENOMENA. FOR ADVANCED RESEARCH, SPECIALIZED LABS ARE AVAILABLE, FEATURING EQUIPMENT SUCH AS:

- HIGH-VACUUM SYSTEMS FOR THIN-FILM DEPOSITION AND SURFACE SCIENCE STUDIES.
- ADVANCED SPECTROSCOPIC TOOLS FOR MATERIAL CHARACTERIZATION.
- LOW-TEMPERATURE FACILITIES FOR STUDYING QUANTUM PHENOMENA.
- COMPUTING CLUSTERS FOR THEORETICAL CALCULATIONS AND DATA ANALYSIS.
- ACCESS TO OFF-CAMPUS OBSERVATORIES FOR ASTROPHYSICAL RESEARCH.

FURTHERMORE, THE UNIVERSITY PROVIDES ROBUST COMPUTATIONAL RESOURCES, INCLUDING HIGH-PERFORMANCE COMPUTING CLUSTERS AND ACCESS TO SPECIALIZED SOFTWARE, ESSENTIAL FOR THEORETICAL PHYSICS, COMPUTATIONAL MODELING, AND DATA-INTENSIVE RESEARCH ACROSS ALL SUBFIELDS. THE EARL GREGG SWEM LIBRARY OFFERS EXTENSIVE ACCESS TO SCIENTIFIC JOURNALS, DATABASES, AND RESEARCH MATERIALS, SUPPORTING BOTH STUDENT AND FACULTY SCHOLARLY PURSUITS.

THE WILLIAM & MARY PHYSICS COMMUNITY

BEYOND THE ACADEMIC RIGOR AND CUTTING-EDGE RESEARCH, THE DEPARTMENT OF PHYSICS AT WILLIAM & MARY FOSTERS A STRONG SENSE OF COMMUNITY. THIS SUPPORTIVE ENVIRONMENT IS CRUCIAL FOR STUDENT SUCCESS AND PERSONAL GROWTH.

STUDENT LIFE AND ENGAGEMENT

THE PHYSICS COMMUNITY AT WILLIAM & MARY IS CHARACTERIZED BY ITS COLLABORATIVE SPIRIT AND MUTUAL SUPPORT. STUDENTS OFTEN FORM STUDY GROUPS, HELPING EACH OTHER NAVIGATE CHALLENGING COURSEWORK. THE DEPARTMENT ACTIVELY ENCOURAGES ENGAGEMENT THROUGH VARIOUS AVENUES. THE STUDENT CHAPTER OF THE AMERICAN PHYSICAL SOCIETY (APS) PROVIDES OPPORTUNITIES FOR PROFESSIONAL DEVELOPMENT, NETWORKING, AND SOCIAL EVENTS. REGULAR DEPARTMENTAL SEMINARS AND COLLOQUIA EXPOSE STUDENTS TO CURRENT RESEARCH BEING CONDUCTED BOTH WITHIN AND OUTSIDE THE UNIVERSITY, SPARKING INTELLECTUAL CURIOSITY AND BROADENING PERSPECTIVES. FACULTY MEMBERS MAINTAIN AN OPEN-DOOR POLICY, MAKING THEMSELVES ACCESSIBLE FOR ACADEMIC ADVISING, RESEARCH DISCUSSIONS, AND GENERAL MENTORSHIP. THIS APPROACHABLE FACULTY-STUDENT DYNAMIC IS A HALLMARK OF THE WILLIAM & MARY EXPERIENCE, CREATING A NURTURING ATMOSPHERE WHERE STUDENTS FEEL EMPOWERED TO ASK QUESTIONS, EXPLORE IDEAS, AND PURSUE THEIR PASSIONS.

CAREER PATHS FOR PHYSICS GRADUATES

A DEGREE IN PHYSICS FROM WILLIAM & MARY OPENS DOORS TO A REMARKABLY DIVERSE RANGE OF CAREER OPPORTUNITIES. THE ANALYTICAL SKILLS, PROBLEM-SOLVING ABILITIES, AND QUANTITATIVE REASONING DEVELOPED THROUGH A PHYSICS CURRICULUM ARE HIGHLY VALUED ACROSS NUMEROUS INDUSTRIES AND ACADEMIC PURSUITS.

GRADUATES OFTEN PURSUE ADVANCED STUDIES IN PHYSICS, ENGINEERING, OR RELATED SCIENTIFIC FIELDS, EARNING MASTER'S OR PH.D. DEGREES AND GOING ON TO CAREERS IN ACADEMIA, NATIONAL LABORATORIES, AND CUTTING-EDGE RESEARCH AND DEVELOPMENT. HOWEVER, THE APPLICATIONS OF A PHYSICS EDUCATION EXTEND FAR BEYOND TRADITIONAL SCIENTIFIC RESEARCH. MANY WILLIAM & MARY PHYSICS ALUMNI FIND SUCCESSFUL CAREERS IN:

- DATA SCIENCE AND ANALYTICS

- SOFTWARE DEVELOPMENT AND ENGINEERING
- FINANCE AND QUANTITATIVE ANALYSIS
- PATENT LAW AND TECHNICAL WRITING
- EDUCATION AT ALL LEVELS
- BIOTECHNOLOGY AND MEDICAL PHYSICS
- GOVERNMENT AND POLICY ANALYSIS

THE RIGOROUS TRAINING IN LOGICAL THINKING AND ABSTRACT PROBLEM-SOLVING MAKES PHYSICS GRADUATES ADAPTABLE AND HIGHLY SOUGHT AFTER IN A DYNAMIC JOB MARKET. THE ABILITY TO APPROACH COMPLEX PROBLEMS SYSTEMATICALLY AND DEVELOP INNOVATIVE SOLUTIONS IS A TRANSFERABLE SKILL THAT GARNERS RESPECT AND OPENS PATHWAYS TO LEADERSHIP ROLES IN VARIOUS SECTORS.

IN CONCLUSION, THE DEPARTMENT OF PHYSICS AT WILLIAM & MARY OFFERS A COMPELLING BLEND OF RIGOROUS ACADEMIC INSTRUCTION, EXCITING RESEARCH OPPORTUNITIES, AND A SUPPORTIVE COMMUNITY. WHETHER PURSUING UNDERGRADUATE OR GRADUATE STUDIES, STUDENTS ARE PROVIDED WITH THE KNOWLEDGE, SKILLS, AND MENTORSHIP NECESSARY TO EXCEL IN THEIR CHOSEN PATHS AND CONTRIBUTE MEANINGFULLY TO THE SCIENTIFIC AND TECHNOLOGICAL LANDSCAPE.

Q: WHAT ARE THE MAIN RESEARCH AREAS IN THE PHYSICS DEPARTMENT AT WILLIAM & MARY?

A: THE PHYSICS DEPARTMENT AT WILLIAM & MARY FOCUSES ON SEVERAL KEY RESEARCH AREAS, INCLUDING ASTROPHYSICS AND COSMOLOGY, CONDENSED MATTER PHYSICS, NUCLEAR AND PARTICLE PHYSICS, AND BIOPHYSICS. THESE AREAS REPRESENT A BROAD SPECTRUM OF FUNDAMENTAL AND APPLIED PHYSICS RESEARCH.

Q: ARE THERE OPPORTUNITIES FOR UNDERGRADUATE STUDENTS TO GET INVOLVED IN RESEARCH?

A: ABSOLUTELY. UNDERGRADUATE STUDENTS AT WILLIAM & MARY HAVE EXTENSIVE OPPORTUNITIES TO PARTICIPATE IN RESEARCH THROUGH FORMAL PROGRAMS LIKE THE SUMMER RESEARCH PROGRAM, AS WELL AS THROUGH DIRECT COLLABORATION WITH FACULTY ON ONGOING PROJECTS.

Q: WHAT KIND OF CAREER PATHS CAN PHYSICS GRADUATES FROM WILLIAM & MARY PURSUE?

A: PHYSICS GRADUATES FROM WILLIAM & MARY ARE HIGHLY SOUGHT AFTER IN A VARIETY OF FIELDS. BEYOND ACADEMIA AND TRADITIONAL RESEARCH, THEY OFTEN FIND SUCCESSFUL CAREERS IN DATA SCIENCE, SOFTWARE ENGINEERING, FINANCE, BIOTECHNOLOGY, PATENT LAW, AND GOVERNMENT.

Q: DOES WILLIAM & MARY OFFER GRADUATE PROGRAMS IN PHYSICS?

A: YES, WILLIAM & MARY OFFERS GRADUATE PROGRAMS IN PHYSICS, INCLUDING MASTER OF SCIENCE (M.S.) AND DOCTOR OF PHILOSOPHY (PH.D.) DEGREES, WITH A STRONG EMPHASIS ON RESEARCH.

Q: WHAT ARE THE TYPICAL CORE COURSES IN THE UNDERGRADUATE PHYSICS CURRICULUM?

A: THE UNDERGRADUATE PHYSICS CURRICULUM TYPICALLY INCLUDES FOUNDATIONAL COURSES IN MECHANICS, ELECTRICITY AND MAGNETISM, THERMODYNAMICS, AND MODERN PHYSICS, COMPLEMENTED BY LABORATORY WORK.

Q: HOW DOES THE DEPARTMENT SUPPORT ITS STUDENTS?

A: THE DEPARTMENT FOSTERS A SUPPORTIVE COMMUNITY THROUGH SMALL CLASS SIZES, ACCESSIBLE FACULTY, A STUDENT CHAPTER OF THE AMERICAN PHYSICAL SOCIETY, REGULAR SEMINARS, AND ENCOURAGEMENT OF COLLABORATIVE LEARNING.

Q: WHAT KIND OF FACILITIES ARE AVAILABLE FOR PHYSICS STUDENTS AT WILLIAM & MARY?

A: THE DEPARTMENT IS EQUIPPED WITH MODERN TEACHING LABORATORIES, SPECIALIZED RESEARCH LABS WITH ADVANCED INSTRUMENTATION (E.G., FOR CONDENSED MATTER, VACUUM SYSTEMS), AND ACCESS TO UNIVERSITY-WIDE COMPUTATIONAL RESOURCES AND LIBRARY SERVICES.

Q: CAN PHYSICS STUDENTS AT WILLIAM & MARY COLLABORATE WITH OTHER DEPARTMENTS?

A: YES, THE DEPARTMENT ENCOURAGES INTERDISCIPLINARY RESEARCH, PARTICULARLY IN AREAS LIKE BIOPHYSICS, ALLOWING PHYSICS STUDENTS TO COLLABORATE WITH FACULTY AND STUDENTS FROM BIOLOGY, CHEMISTRY, AND COMPUTER SCIENCE.

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