Internship Opportunities

Internships and research experiences for undergraduates (REUs) give you experience and professional connections to further your career goals. Apply early for internships and seek advice on how best to interview. Prince George's Community College (PGCC) offers many services that can help. For additional information, talk to Engineering Advisement. Examples of employers or colleges who offer internships or REUs are:

- National Aeronautics and Space Administration (NASA)
- National Institutes of Health (NIH)
- National Institute of Standards and Technology (NIST)
- Howard University
- Cornell University

For a list of currently available REUs for the summer and some internship opportunities, visit the web site at http://academic.pgcc.edu/~sjohnson/intern.html

PGCC’s proximity to Washington DC and surrounding technologically diverse area gives students many options for internships and eventual employment.

Supporting the Student

PGCC works toward the betterment of all students. To that end, PGCC offers a number of support structures to aid the student towards a path of success.

Learning Labs, Mentoring Programs, and Collegian Centers are available at PGCC. Mentoring programs provide one-on-one faculty contact with the student. The learning labs are available for students to interact in a group environment. The collegian centers provide the students with numerous activities to enhance their peer and professional interactions, as well as mentoring. Many PGCC engineering students have ensured a successful collegiate experience by participating in the Sciences, Technology, Engineering, & Mathematics (STEM) Collegian Center.

The Tutoring & Writing Center provides support mostly faculty tutors for many courses at PGCC.

Evening classes are available for many courses to assist students who work and go to school part-time.

For additional information about the engineering program, visit the engineering web site: http://academic.pgcc.edu/engineering or contact the Department of Physical Sciences and Engineering at Prince George's Community College at 301-322-0420 or visit http://academic.pgcc.edu/psc

For additional information on application to PGCC, class registration, schedules, and costs, visit http://www.pgcc.edu

For Engineering Advisement Contact:
Dr. Scott Johnson
E-mail: sdjohnson@pgcc.edu

Engineering Transfer and Degree Program

Computer Engineering
Civil Engineering
Aerospace Engineering
Bioengineering
Mechanical Engineering
Optical Engineering
Petroleum Engineering

Electrical Engineering
Nuclear Engineering
Environmental Engineering
Chemical Engineering
Oceanographic Engineering
Music Engineering
Materials Engineering
Engineering
Great career choice!

A career choice in engineering is a choice in learning, professionalism, and citizenship. With a thorough understanding of engineering, you will more fully grasp the world around you, establish a respected professional career, and design and create the dream products of tomorrow.

Did you know that engineering is many disciplines in one? Engineering is history. The history of failure and success is the method engineers use to advance the field. Engineering is art. The act of design and creation defines an engineer. Engineering is business. Design within a reasonable budget is a key goal of engineers. Engineering is science, not just one area of science, but all of them! Why be an engineer? To reach your full potential as a learner, professional, and a citizen.

Engineering is not just for engineers. Engineering backgrounds have enhanced many successful men's and women's careers including Presidents, lawyers, managers, actors, actresses, and medical doctors. Engineers have designed everything from the Pyramids to the pencil, from the airplane to a child's toy train set, from large to small creations. Engineering is for all who wish to expand their knowledge base and in so doing enhance their careers.

The engineering program at Prince George's Community College is designed to give a thorough engineering education for the freshman and sophomore years of a University-bound student at a fraction of the cost. Our philosophy is to train a well-rounded engineer who is versatile in engineering and any other field that he or she may wish to pursue. Come join us!

Other core requirements need to be met to get an associate degree in engineering. All courses in the engineering program are transferable to area colleges and beyond. However, for transfer options, please meet with Engineering Advisement and your college(s) of choice for the last two years of your degree.

Excellent Prospects
Great salaries!
Excellent benefits!
Stable job prospects!

Your most important career decision should not be about the money you will make, but whether you enjoy the work. However, a background in engineering will help you achieve a reasonably comfortable life while making a meaningful contribution to society.

From ancient Egypt to present-day society, engineers have had salaries and benefits substantially above the median income wherever they may live. Employment prospects have always been excellent for engineers in both good times and bad times.

The challenging training that an engineer receives is transferable to a number of jobs besides engineering, giving the engineer the confidence that he or she will remain employed throughout his or her lifetime.

The engineering program consists of the core courses:

- EGR-1010: Introductory Engineering
- EGR-1140: Computer Programming for Engineers & Scientists
- EGR-2050: Signals and Systems: Modeling, Computation, and Analysis

And supplemental courses depending on your final major:

- EGR-2030: Circuit Analysis
- EGR-2060: Thermodynamics
- EGR-2200: Engineering Mechanics (Statics & Dynamics)
- EGR-2210: Advanced Engineering Mechanics
- EGR-2220: Solid Mechanics
- EGR-2300: Materials Science for Engineers & Scientists
- EGR-2440: Digital Logic Design
- EGR-2450: Electronic & Digital Circuit Laboratory
- EGR-2990H: Honors Seminar in Engineering & Science
- EGR-1210, 1220: Computer Science

with support courses:

- CHM-2000: Chemistry for Engineers
- PHY-1030, 2030, 2040: General Physics (calculus-based)
- MAT-2410, 2420, 2430: Calculus
- MAT-2450: Linear Algebra
- MAT-2460: Differential Equations
- MAT-2500: Mathematics of Discrete Structures
- CHM-2010, 2020, 2040: Organic Chemistry with Laboratory
- BIO-1130, 1140: Principles of Biology
- BIO-2010: Microbiology
- BIO-2050, 2060: Human Anatomy and Physiology
- BIO-2090: Cell Biology
- MUS-1150, 1160: Music Theory (Music Engineering)

Students not ready for a calculus-based curriculum take a pre-engineering program (1-year) as follows:

- MAT-1350: College Algebra
- MAT-1360: Trigonometry and Analytic Geometry
- EGL-1010: Composition I: Expository Writing

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